

Catalog

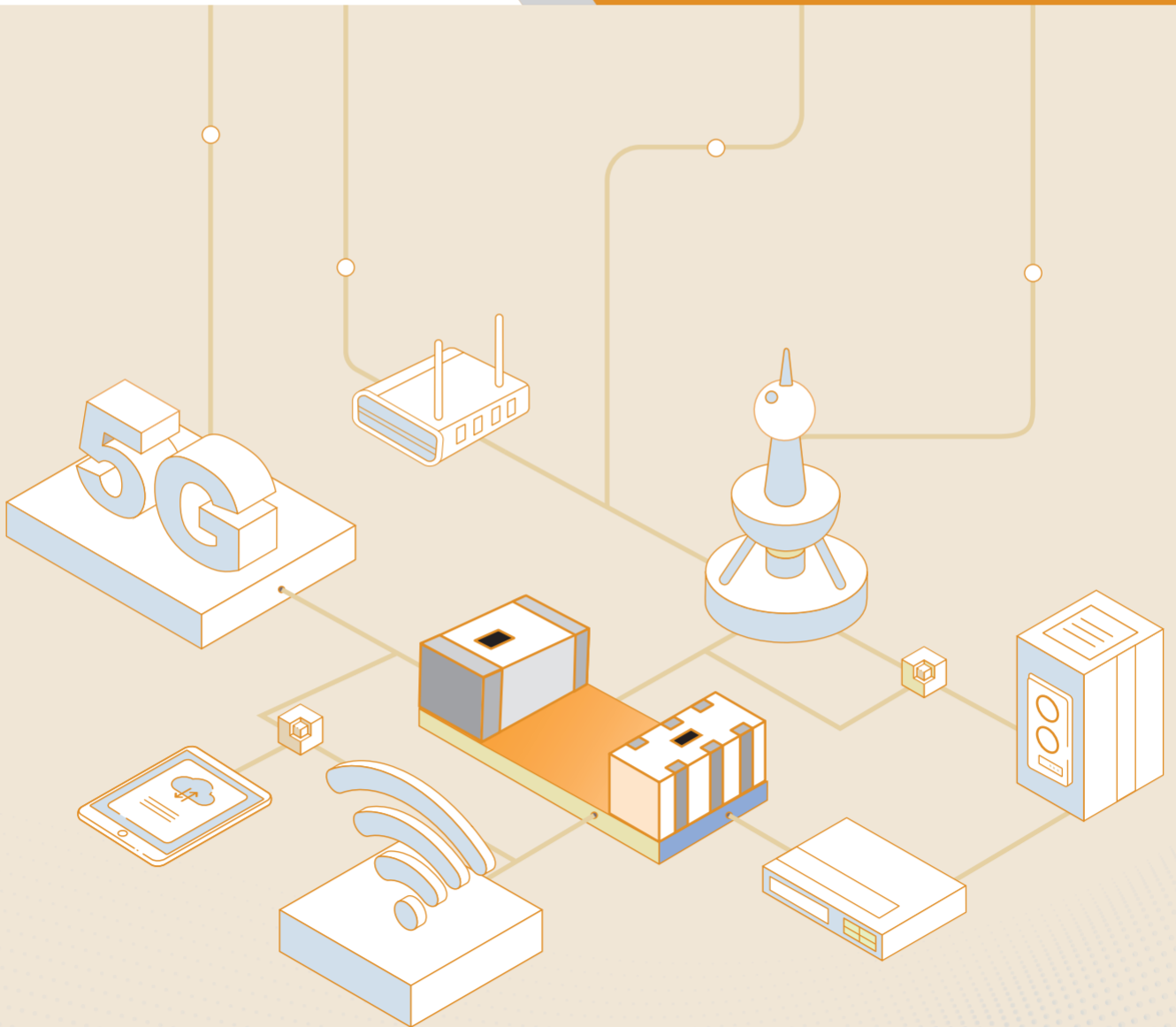
Sunlord
expert in e components

RF COMPONENTS

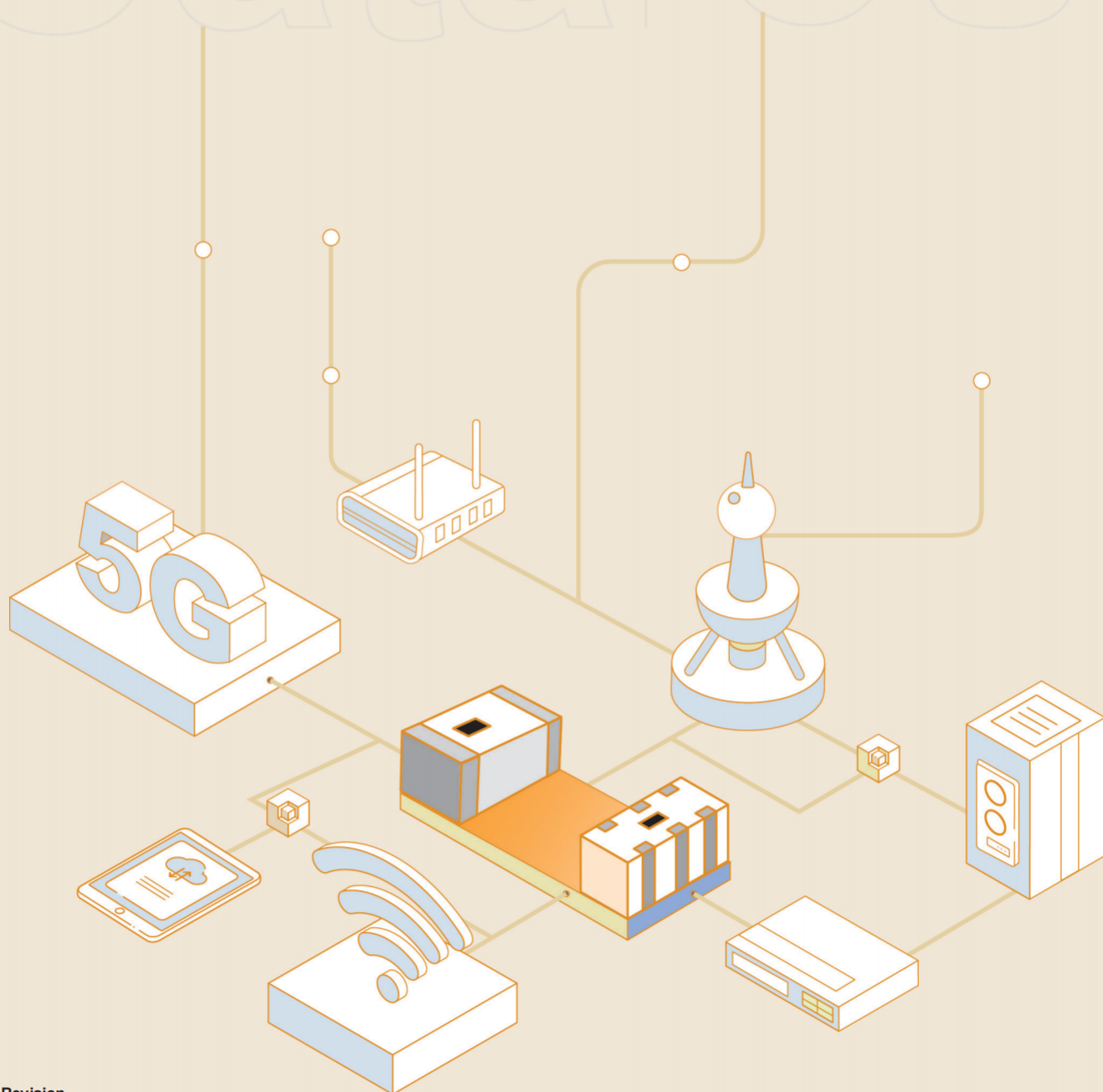
Catalog

2023-2024

Shenzhen Sunlord Electronics Co., Ltd.
www.sunlordinc.com







Notice for Sunlord Products









Product data in this Catalog are as of June 2023. They are subject to change without advance notice. Please check with our sales representatives or product engineers before ordering.

All information and data presented in this Catalog are for information only. Please contact us for detail product specification. You are requested to approve our product specification before your ordering.

This catalog contains the typical product due to the limitation of space. Please contact our sales representatives or product engineer when you didn't find the suitable product in this catalogue.

Updated information on our products is also available through the internet home page at the following address:
[Http:// www.sunlordinc.com](http://www.sunlordinc.com)




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
Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

PROPERTY RANGE TABLE

MULTILAYER CHIP LC FILTER


Series	Shape	Dimensions	Center Frequency (MHz)				Page
			500	1000	5000	6000	
SLFB		1005[0402]-3225[1210]			1910 ████████████████	7245	7
SLFL		0605[0202]-2012[0805]		787 ████████████████	5950		16
SLFH		1005[0402]-2012[0805]			1358 ████████	5150	25

MULTILAYER CHIP BALUN


Series	Shape	Dimensions	Center Frequency (MHz)			Page
			500	1000	5000	
SLBL		0605[0202]-2012[0805]		698 ████████████████	8000	28

PROPERTY RANGE TABLE

MULTILAYER CHIP DIPLEXER

Series	Shape	Dimensions	Center Frequency (MHz)				Page
			500	1000	6000		
SLFD		1005[0402]-2520[1008]		698		7125	31


MULTILAYER CHIP TRIPLEXER

Series	Shape	Dimensions	Center Frequency (MHz)				Page
			500	1000	6000		
SLFT		2012[0805]			1560	5950	48


MULTILAYER CHIP LC COUPLER

Series	Shape	Dimensions	Center Frequency (MHz)				Page
			500	1000	6000		
SLCP		0605[0202]-5031[2012]		700		8000	55

MULTILAYER CHIP ANTENNA

Series	Shape	Dimensions	Center Frequency (MHz)				Page
			1000	3000	5000	6000	
SLDA		1005[0402]-154(15mm×4.0mm)		2400	3010		60

WIRE WOUND CHIP BALUN TRANSFORMER

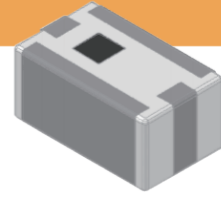
Series	Shape	Dimensions	Center Frequency (MHz)				Page
			2000	3000	5000	6000	
BW		2012[0805]-4532[1812]		2400		6700	67

CERAMIC DIELECTRIC FILTER

Series	Shape	Dimensions	Center Frequency (MHz)				Page	
			100	500	1000	5000		
VFCF/D		8×3-93×70(mm)				1920	5850	72

Multilayer Chip LC Band Pass Filter – SLFB Series

Operating temp. : -40°C ~+85°C



- FEATURES**
- ◆ Small and low profile enables high density mounting
 - ◆ Low insertion loss and high attenuation
 - ◆ Excellent solderability

- APPLICATIONS**
- ◆ Mobile communication equipment for GSM, LTE, 5G systems, etc.
 - ◆ Bluetooth, WLAN, Wi-Fi etc.
 - ◆ Base station application

PRODUCT IDENTIFICATION

1 SLFB	2 18	3 -2R450G	4 -07	5 T	6 F
------------------	----------------	---------------------	-----------------	---------------	---------------

1 Type	
SLFB	Bandpass LC Filter

2 External Dimensions (L×W) (MM)	
15 [0402]	1.0×0.5
18 [0603]	1.6×0.8
19 [0403]	1.1×0.9
21 [0805]	2.0×1.2
32 [1210]	3.2×2.5

3 Center Frequency	
Example	Nominal Value
1R917G	1910MHz
2R450G	2450MHz
5R550G	5550MHz

4 Series Code	
07 etc.	

5 Packing	
T	Tape & Reel

6 Hazardous Substance Free Products	
F	

SHAPE AND DIMENSIONS

<p>SLFB15-2R450G-02TF</p>	<p>Dimensions and Land Patterns</p> <p>Unit: mm</p>		
<p>SLFB15-2R450G-31TF/ SLFB15-5R500G-31TF</p>	<p>Dimensions and Land Patterns</p> <p>Unit: mm</p>		

Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

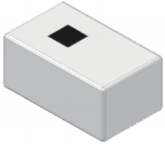
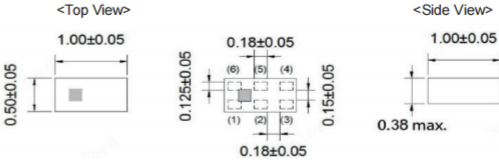
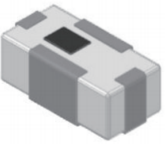
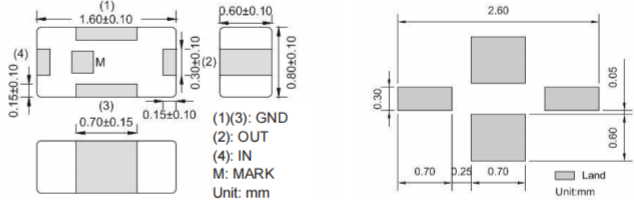
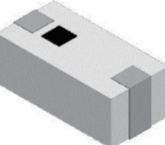
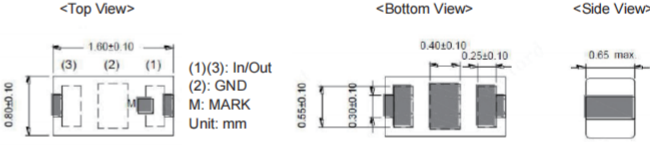
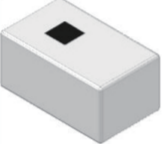
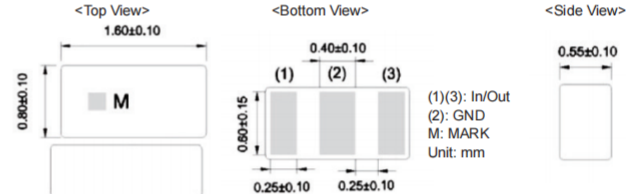
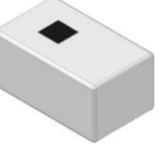
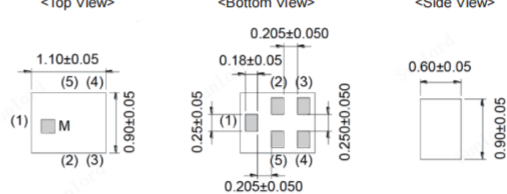
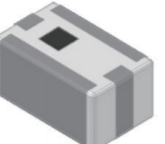
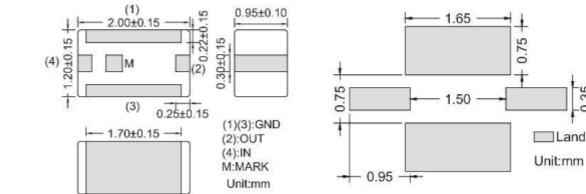
Multilayer Chip LC Coupler

Multilayer Chip Antenna

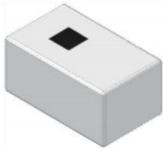
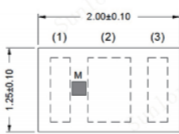
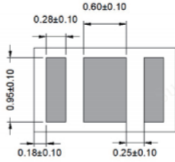

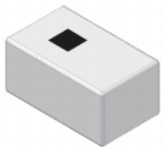
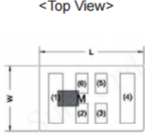
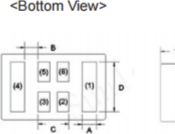
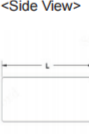
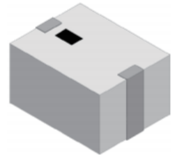
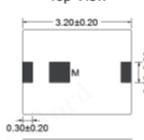
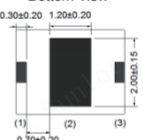
Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SHAPE AND DIMENSIONS

<p>SLFB15-3R800G-07TF/ SLFB15-4R700G-01TF</p> 	<p>Dimensions and Land Patterns</p>  <p><Terminal> (4)(6): In/Out (1)(3): GUD (2)(5): GUD M: MARK Unit: mm</p>
<p>Type: SLFB18 Series</p>	<p>Dimensions and Land Patterns</p>
	 <p>(1)(3): GND (2): OUT (4): IN M: MARK Unit: mm</p> <p>Land Unit:mm</p>
<p>SLFB18-2R450G-36TF/ SLFB18-3R800G-03TF/ SLFB18-4R700G-03TF</p>	<p>Dimensions and Land Patterns</p>
	 <p>(1)(3): In/Out (2): GND M: MARK Unit: mm</p>
<p>SLFB18-2R450G-22TF/ SLFB18-5R500G-38/39/43TF/ SLFB18-5R900G-01/S42TF/ SLFB18-6R000G-32/33TF/ SLFB18-7R254G-02TF</p>	<p>Dimensions and Land Patterns</p>
	 <p>(1)(3): In/Out (2): GND M: MARK Unit: mm</p>
<p>SLFB19-2R450G-03TF</p>	<p>Dimensions and Land Patterns</p>
	 <p>(1): Input (2)(3)(5): GND (4): Out M: MARK Unit: mm</p>
<p>Type: SLFB21 Series</p>	<p>Dimensions and Land Patterns</p>
	 <p>(1)(3): GND (2): OUT (4): IN M: MARK Unit:mm</p> <p>Land Unit:mm</p>

SHAPE AND DIMENSIONS

<p>SLFB21-2R450G-31/33TF SLFB21-3R600G-41TF/ SLFB21-3R800G-17TF/31TF/ SLFB21-4R700G-19TF/31TF/ SLFB21-4R900G-31TF</p>	<p style="text-align: center;">Dimensions and Land Patterns</p>
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p style="text-align: right;">(1): Input (2)(3)(5): GND (4): Out M: MARK Unit: mm</p>
<p>SLFB21-4R150G-31TF</p>	<p style="text-align: center;">Dimensions and Land Patterns</p>
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p style="text-align: right;">(1)(4): In/Out (2)(3)(5)(6): GND M: MARK Unit: mm</p>
<p>Type: SLFB32 Series</p>	<p style="text-align: center;">Dimensions and Land Patterns</p>
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> </div> <p style="text-align: right;">(1): In (2): GND (3): OUT M: MARK Unit: mm</p>

SPECIFICATIONS SLFB15 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB15-2R450G-02TF	2450	$f_0 \pm 50.0$	1.4	25 dB Min.@880~960MHz	0.38±0.05
				8.0 dB Min.@1710~1970MHz	
				23 dB Min.@4800~5000MHz	
				32dB Min.@7200~7500MHz	
SLFB15-2R450G-31TF	2450	$f_0 \pm 50.0$	1.3	9 dB Min.@DC~915MHz	0.38±0.05
				34 dB Min.@4800~5000MHz	
				27 dB Min.@7200~7500MHz	
SLFB15-5R500G-31TF	5500	4900~5950	1.0	24 dB min.@2400~2500MHz	0.45±0.05
				12 dB min.@9800~11900MHz	
				14 dB min.@14700~17850MHz	

SLFB18 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB18-1R910G-01TF	1910	1805~2025	1.65	30 dB@700~950MHz	0.80±0.10
				15 dB@950~1050MHz	
				25 dB@2400~2500MHz	
				25 dB@2700~5400MHz	
				20 dB@5500~12500MHz	
SLFB18-1R950G-31TF	1950	1880~2025	2.1	30 dB@700~950MHz	0.80±0.10
				28 dB@950~1050MHz	
				20 dB@1545~1610MHz	
				23 dB@2400~2500MHz	
				20 dB@2700~5150MHz	
SLFB18-2R450G-07TF	2450	2400~2500	1.8	30 dB Min.@800~960MHz	0.80±0.10
				30 dB Min.@1710~1990MHz	
				30 dB Min.@4800~5000MHz	
				30 dB Min.@7200~7500MHz	
SLFB18-2R450G-21TF	2450	2400~2500	3.0	20 dB Min.@695~1910MHz	0.80±0.10
				20 dB Min.@3200~4800MHz	
				20 dB Min.@5000~7500MHz	
				20 dB Min.@7200~7500MHz	
SLFB18-2R450G-22TF	2450	2400~2500	2.0	38 dB min.@880~915MHz	0.80±0.10
				35 dB min.@1710MHz	
				25 dB min.@1850~1910MHz	
				25 dB min.@1920~1990MHz	
				20 dB min.@2110~2170MHz	
SLFB18-2R450G-32TF	2495	2300~2690	2.0	30 dB min.@4800~5000MHz	0.80±0.10
				30 dB min.@7200~7500MHz	
				12 dB Min.@500~1800MHz	
SLFB18-2R450G-36TF	2450	2400~2500	0.95	25 dB Min.@3600~4000MHz	0.80±0.10
				20 dB@500~960MHz	
				23 dB@3200~3312MHz	
				30 dB@4800~5000MHz	
				32 dB@7200~7500MHz	

SPECIFICATIONS SLFB18 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB18-2R600G-23TF	2600	2500~2700	1.9	29.5 dB min.@806~849MHz	0.60±0.10
				29.5 dB min.@880~915MHz	
				30 dB min.@1710~1785MHz	
				25 dB min.@1850~1910MHz	
				17.5 dB min.@1920~1980MHz	
				8.5 dB min.@3300~3900MHz	
SLFB18-4R700G-03TF	4700	4400~5000	1.5	38 dB Min.@DC~693MHz	0.55±0.10
				38 dB Min.@693~2690MHz	
				12 dB Min.@5470~5735MHz	
				18 dB Min.@5735~5925MHz	
				27 dB Min.@8800~10000MHz	
				25 dB Min.@13200~15000MHz	
SLFB18-3R800G-03TF	3800	3300~4200	1.9	38 dB Min.@DC~693MHz	0.65±0.10
				38 dB Min.@693~2300MHz	
				36 dB Min.@2300~2690MHz	
				20 dB Min.@5150~5470MHz	
				25 dB Min.@5470~5925MHz	
				25 dB Min.@6600~8400MHz	
SLFB18-5R500G-38TF	5550	5150~5950	0.8	35 dB@30~2700MHz	0.55±0.10
				30 dB@3400~3800MHz	
				15 dB@7200~7800MHz	
				20 dB@10300~11700MHz	
SLFB18-5R500G-S42TF	5550	5150~5950	0.6	35 dB min.@2400~2500MHz	0.60±0.10
				30 dB min.@10300~11900MHz	
				25 dB min.@15450~17850MHz	
SLFB18-5R500G-43TF	5500	5150~5925	1.40	35 dB min.@700~2690MHz	0.55±0.10
				28 dB min.@3300~4200MHz	
				15 dB min.@6900~7200MHz	
				20 dB min.@7200~9800MHz	
				20 dB min.@9800~11700MHz	
SLFB18-6R000G-32TF	6000	5150~7125	0.9	40 dB min.@2400~2500MHz	0.65±0.10
				30 dB min.@10340~14250MHz	
				30 dB min.@15510~21375MHz	
SLFB18-6R000G-33TF	6000	5150~7250	1.6	42 dB min.@100~960MHz	0.70±0.10
				40 dB min.@1166~1249MHz	
				38 dB min.@1427~1610MHz	
				38 dB min.@1695~2200MHz	
				38 dB min.@2300~2370MHz	
				38 dB min.@2400~2483MHz	
				38 dB min.@2496~2690MHz	
				38 dB min.@3300~4200MHz	
				12 dB min.@4500~4600MHz	
				25 dB min.@9000~9800MHz	
25 dB min.@10300~14250MHz					

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS SLFB18 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB18-7R245G-02TF	7245	6240~8250	1.80 dB max. @6240~6750MHz	27 dB min.@700~2690MHz	0.70±0.1
				27 dB min.@3300~3800MHz	
				29 dB min.@3800~4000MHz	
				34 dB min.@4000~4200MHz	
				17 dB min.@4400~5000MHz	
				2 dB min.@5150~5850MHz	
				16 dB min.@12500~13500MHz	
				15 dB min.@15500~16500MHz	
				1.25 dB max. @7750~8250 MHz	
SLFB18-5R900G-01TF	5900	5855~5925	1.1	35 dB@100~2700MHz	0.70±0.1
				30 dB@2700~3600MHz	
				25 dB@3600~3800MHz	
				25 dB@3800~4000MHz	
				20 dB@4000~4400MHz	
				16 dB@7000~7400MHz	
				16 dB@7400~9750MHz	
				20 dB@9750~10300MHz	
				16 dB@10300~12750MHz	
SLFB18-5R500G-39TF	5425	4900~5950	1	35 dB@30~2700MHz	0.55±0.10
				33 dB@3400~3800MHz	
				9 dB@6900~7000MHz	
				15 dB@7200~7500MHz	
				20 dB@9800~11900MHz	

SLFB19 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB19-2R450G-03TF	2450	2400~2500	1.5	20 dB Min.@50~960MHz	0.5
				30 dB Min.@1560~1606MHz	
				15 dB Min.@1710~1990MHz	
				10 dB Min.@3600MHz	
				35 dB Min.@4800~5000MHz	
				25 dB Min.@7200~7500MHz	

SLFB21 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB21-2R450G-31TF	2450	2400~2500	1.5	38 dB@880~915MHz	0.95±0.10
				35 dB@1710~1850MHz	
				35 dB@1850~1910MHz	
				35 dB@1920~1990MHz	
				30 dB@4800~5000MHz	
				30 dB@7200~7500MHz	

SPECIFICATIONS SLFB21 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB21-2R450G-33TF	2450	2400~2500	1.9	35 dB Min.@824~960MHz	0.95±0.10
				30 dB Min.@1545~1605MHz	
				30 dB Min.@1770~1990MHz	
				30 dB Min.@2170MHz	
				27 dB Min.@4800~5000MHz	
SLFB21-2R450G-41TF	2450	2400~2500	1.4	25 dB Min.@7200~7500MHz	0.95±0.10
				30 dB@824~960MHz	
				30 dB@1710~1910MHz	
				20 dB@1920~1990MHz	
				6 dB@2110~2170MHz	
SLFB21-2R600G-41TF	2600	2500~2700	2.0	20 dB@4800~5000MHz	0.95±0.10
				30 dB@824~960MHz	
				30 dB@1710~1910MHz	
				20 dB@1920~1990MHz	
				12 dB@2110~2200MHz	
SLFB21-3R600G-31TF	3600	3300~3900	1.5	20 dB@4800~5000MHz	0.95±0.10
				32 dB Min.@824~960MHz	
				24 dB Min.@1710~1990MHz	
				21 dB Min.@1990~2170MHz	
SLFB21-3R600G-41TF	3600	3400~3800	1.3	28.5 dB Min.@6900~8070MHz	0.70±0.10
				37.5 dB Min.@1~2170MHz	
				27.5 dB Min.@2170~2400MHz	
				27.5 dB Min.@2400~2500MHz	
				9.5 dB Min.@2500~2800MHz	
				4.5 dB Min.@4400~4800MHz	
				25 dB Min.@4800~4900MHz	
				25 dB Min.@4900~5337MHz	
				25 dB Min.@5337~5430MHz	
				25 dB Min.@5430~6800MHz	
				34.5 dB Min.@6800~7600MHz	
				30 dB Min.@7600~9000MHz	
25 dB Min.@9000~11400MHz					
20 dB Min.@11400~15200MHz					
SLFB21-3R800G-17TF	3800	3300~4200	2	36 dB min.@450~2200MHz	0.70±0.10
				38 dB min.@2300~2483MHz	
				33 dB min.@2496~2690MHz	
				20 dB min.@5150~5850MHz	
				25 dB min.@6600~8400MHz	
15 dB min.@9900~12600MHz					

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS SLFB21 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Attenuation	Thickness			
Units	MHz	MHz	dB	dB	MM			
Symbol	f_0	PB	IL	-	T			
SLFB21-3R800G-31TF	3800	3300~4200	0.85 dB max. @3300~4200 MHz	30 dB min.@100~960MHz	0.70±0.10			
				30 dB min.@1166~1229MHz				
				30 dB min.@1427~1518MHz				
				30 dB min.@1525~1661MHz				
				30 dB min.@1559~1607MHz				
				30 dB min.@1695~1785MHz				
				25 dB min.@1805~2200MHz				
			0.75 dB max. @3400~3800 MHz	25 dB min.@2300~2700MHz				
				22 dB min.@2700~2800MHz				
				9 dB min.@4800~5000MHz				
				20 dB min.@5150~5925MHz				
				20 dB min.@6600~8400MHz				
				20 dB min.@7100~7400MHz				
				20 dB min.@10650~11100MHz				
SLFB21-4R150G-31TF	4150	3300~5000	1.0 dB max. @3300~3800MHz	30 dB min.@690~1880MHz	0.70±0.10			
				20 dB min.@1880~2690MHz				
			0.8 dB max. @3300~4200MHz	20 dB min.@6600~10000MHz				
				0.8 dB max. @4400~5000MHz		20 dB min.@9900~15000MHz		
			SLFB21-4R700G-19TF			4700	4400~5000	1.8
				37 dB@450~2200MHz				
37 dB@2300~2483MHz								
33 dB@2496~2690MHz								
15 dB@5490~5670MHz								
18 dB@5670~5950MHz								
18 dB@6200~8000MHz								
20 dB@8800~10000MHz								
15 dB@13200~15000MHz								
SLFB21-4R700G-31TF	4700	4400~5000	0.85 dB max. @25°C	35 dB min.@500~2500MHz	0.70±0.10			
				30 dB min.@2500~2690MHz				
				20 dB min.@2700~3300MHz				
				17 dB min.@3300~3800MHz				
				20 dB min.@6450~7700MHz				
				15 dB min.@8800~10000MHz				
				15 dB min.@13200~15000MHz				
SLFB21-5R500G-31TF	5500	4900~5950	1.5	30 dB Min.@2690~3450MHz	0.95±0.10			
				20 dB Min.@9800~11000MHz				
SLFB21-5R500G-35TF	5500	4900~5950	1.5	35 dB Min.@340~1195MHz	0.95±0.10			
				35 dB Min.@1280~1795MHz				
				21 dB Min.@2140~3580MHz				
				5.5 dB Min.@4375~4465MHz				
				25 dB Min.@6855~7150MHz				
				20 dB Min.@8570~8930MHz				
15 dB Min.@14700~17850MHz								

SPECIFICATIONS SLFB32 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	MM
Symbol	f_0	PB	IL	-	T
SLFB32-1R400G-31TF	1400	1125~1675	1.9	38 dB min.@DC~900MHz	1.75±0.10
				25 dB min.@900~1002MHz	
				35 dB min.@2000~2500MHz	
				27 dB min.@2500~5950MHz	
SLFB32-1R920G-31TF	1920	1680~2295	2.5	30 dB Min.@DC~1400MHz	2.0±0.10
				30 dB Min.@2620~2705MHz	
				35 dB Min.@2705~2740MHz	
				35 dB Min.@2740~3115MHz	
				30 dB Min.@3115~3235MHz	
				30 dB Min.@3235~6590MHz	
SLFB32-2R525G-11TF	2525	2150~2900	2.5	35 dB@259~650MHz	1.50±0.10
				28 dB@3208~3599MHz	
				35 dB@6157~6548MHz	
SLFB32-3R600G-12TF	3600	3160~4040	1.7dB Max. @3300~3900MHz	30 dB Min.@824~960MHz	1.50±0.10
				24 dB Min.@1200~1990MHz	
			2dB Max. @3160~3300MHz	36 dB Min.@2098~2598MHz	
				23 dB Min.@4600~5000MHz	
			2 dB Max. @3900~4040MHz	43 dB Min.@5000~5600MHz	
				30 dB Min.@6349~6749MHz	
SLFB32-4R900G-31TF	4900	4700~5100	3	28 dB Min.@6900~8070MHz	1.50±0.10
				45 dB Min.@10~2000MHz	
				30 dB Min.@2000~3400MHz	
				30 dB Min.@3400~3800MHz	
				24 dB Min.@3800~4330MHz	
				25 dB Min.@4700~5100MHz	

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

Multilayer Chip Low Pass LC Filter– SLFL Series

Operating temp. : -40°C ~+ 85°C



- FEATURES**
- ◆ Small size, light weight
 - ◆ Low insertion loss
 - ◆ Centre frequencies and responses are ready for customization
 - ◆ Inside shielding
 - ◆ SMD chip based on LTCC technology

- APPLICATIONS**
- ◆ LTE, 5G mobile communication systems
 - ◆ Base station application
 - ◆ Bluetooth, Wi-Fi, NB-IoT etc.

PRODUCT IDENTIFICATION

1 SLFL	2 15	3 -2R025G	4 -01	5 T	6 F
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1	Type
SLFL	Low Pass LC Filter

2	External Dimensions (L×W) (MM)	
	06 [0202]	0.6×0.5
	15 [0402]	1.0×0.5
	18 [0603]	1.6×0.8
	21 [0805]	2.0×1.2

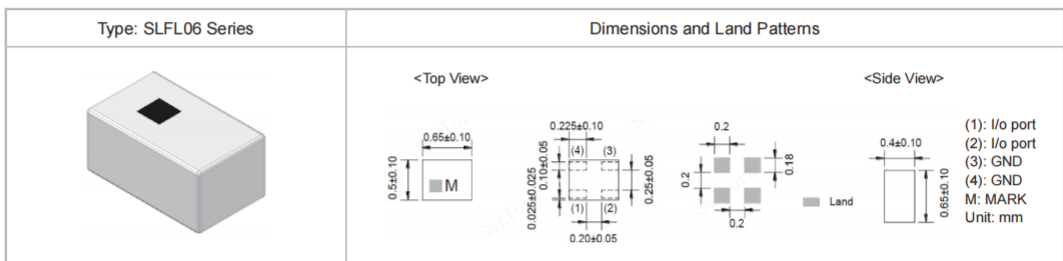
3	Cut-off Frequency	
Example	Nominal Value	
0R960G	960.0MHz	
2R025G	2025.0MHz	

4	Series Code
	01, 02, etc.

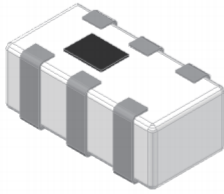

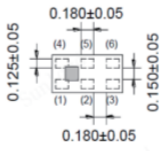
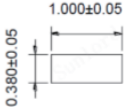
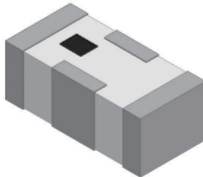
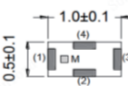
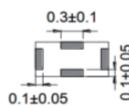

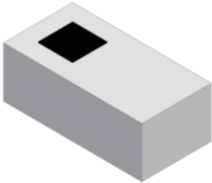
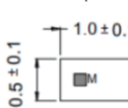
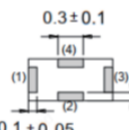
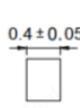
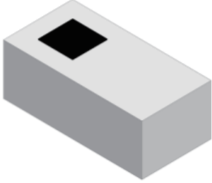
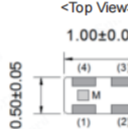
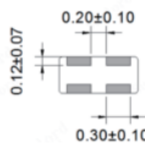
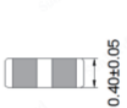
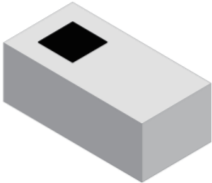
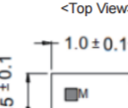
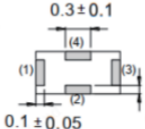

5	Packing
T	Tape & Reel

6	Hazardous Substance Free Products
	F

SHAPE AND DIMENSIONS



SHAPE AND DIMENSIONS

<p>Type: SLFL15 Series</p> 	<p>Dimensions and Land Patterns</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) (3) : NC (2) (5) : GND (4) (6) : In / Out M : MARK Unit : mm</p>
<p>SLFL15-0R960G-03TF/ SLFL15-2R025G-03TF</p>	<p>Dimensions and Land Patterns</p>
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) : IN (2) : GND (3) : OUT (4) : GND M : MARK Unit : mm</p>
<p>SLFL15-2R700G-01/20TF/ SLFL15-5R950G-20TF</p>	<p>Dimensions and Land Patterns</p>
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) (3) : In / Out (2) (4) : GND M : MARK Unit : mm</p>
<p>SLFL15-7R125G-01TF</p>	<p>Dimensions and Land Patterns</p>
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) (2) : In/Out (3) (4) : GND M : MARK Unit : mm</p>
<p>SLFL15-7R125G-03TF</p>	<p>Dimensions and Land Patterns</p>
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p>  </div> <div style="text-align: center;"> <p><Bottom View></p>  </div> <div style="text-align: center;"> <p><Side View></p>  </div> </div> <p>(1) (3) : In / Out (2) (4) : GND M : MARK Unit : mm</p>

Multilayer Chip
LC Filter

Multilayer Chip
Balun

Multilayer Chip
Diplexer

Multilayer Chip
Triplexer

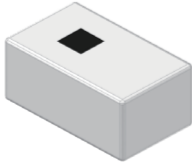
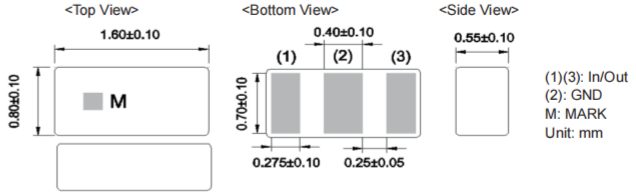
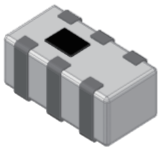
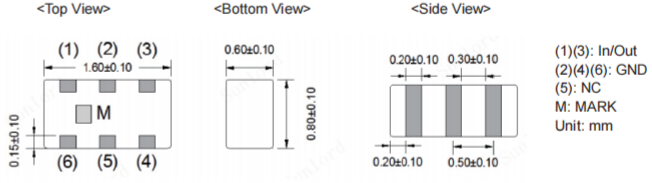
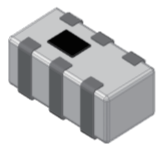
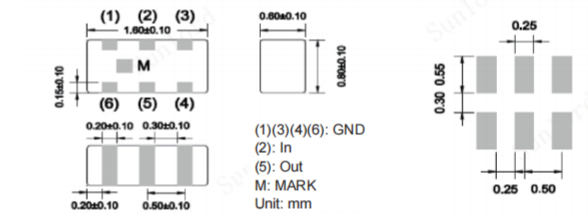
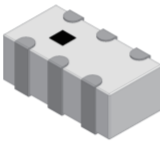
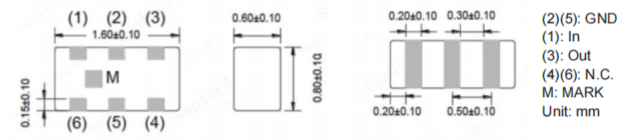
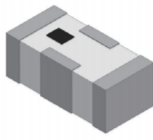
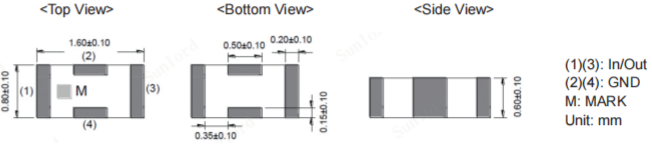
Multilayer Chip LC
Coupler

Multilayer Chip
Antenna

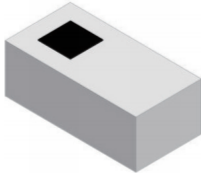
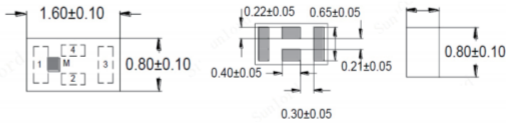
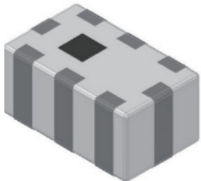
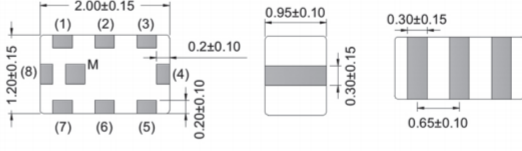
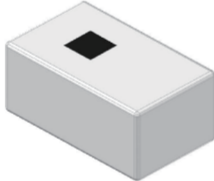
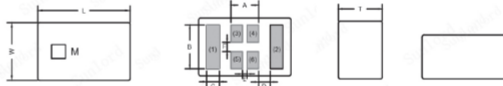
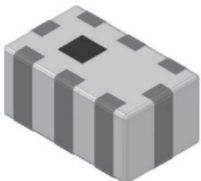
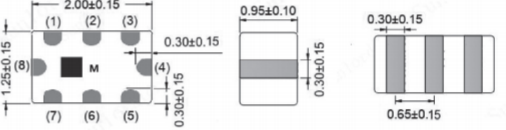
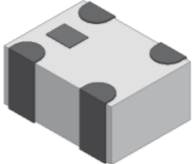
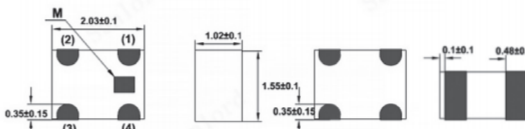
Wire Wound Chip
Balun Transformer

Ceramic Dielectric
Filter

SHAPE AND DIMENSIONS

<p>Type: SLFL18 Series</p> 	<p>Dimensions and Land Patterns</p> 
<p>SLFL18-0R787G-11TF/ SLFL18-0R960G-11TF/ SLFL18-3R600G-11TF/ SLFL18-2R025G-11TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p> 
<p>SLFL18-0R960G-03TF/ SLFL18-2R700G-13TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p> 
<p>SLFL18-2R700G-06TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p> 
<p>SLFL18-1R850G-01TF/ SLFL18-5R950G-31TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p> 

SHAPE AND DIMENSIONS

<p>SLFL18-0R960G-S09/31/41TF/ SLFL18-2R700G-14/S09/17/18/41TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1)(3): In/Out (2)(4): GND M: MARK Unit: mm</p>
<p>Type: SLFL21 Series</p>	<p>Dimensions and Land Patterns</p>
	 <p>(1)(3)(5)(7): GND (2)(6): NC (4): Out (8): In M: MARK Unit: mm</p>
<p>SLFL21-0R490G-01TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1): In (2): Out (3)(4)(5)(6): GND M: MARK Unit: mm</p>
<p>SLFL21-1R575G-01TF/ SLFL21-1R700G-01TF/ SLFL21-2R500G-01TF</p>	<p>Dimensions and Land Patterns</p>
	 <p>(1)(3)(5)(7): GND (2)(6): NC (4): Out (8): In M: MARK Unit: mm</p>
<p>SLFL21-1R880G-01TF/ SLFL21-2R700G-02TF</p>	<p>Dimensions and Land Patterns</p>
	<p><Top View> <Bottom View> <Side View></p>  <p>(1): In (2): Out (3)(4): GND M: MARK Unit: mm</p>

Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

Multilayer Chip LC Coupler

Multilayer Chip Antenna

Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SPECIFICATIONS SLFL06 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
Symbol	f ₀	BW	IL	-	T
SLFL06-0R787G-01TF	787	777~787	0.7	30 dB Min.@1554~1607MHz 19 dB Min.@2400~2500MHz 9 dB Min.@5150~5850MHz	0.40
SLFL06-0R915G-01TF	915	824~915	0.6	20.0dB Min.@2400~2750MHz	0.60
SLFL06-0R960G-01TF	960	824~960	0.6 dB max. @824~915MHz 0.7 dB max. @915~960MHz	20 dB min.@1648~1830MHz 20 dB min.@1830~1920MHz 20 dB min.@2472~2745MHz 20 dB min.@2745~2880MHz	0.40
SLFL06-1R910G-01TF	1910	1710~1910	0.6	30 dB min.@3420~3820MHz 20 dB min.@5130~5730MHz	0.40

SLFL15 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
Symbol	f ₀	BW	IL	-	T
SLFL15-0R787G-01TF	787	746~787	0.6	30 dB Min.@1554~1610MHz 25 dB Min.@2238~2361MHz	0.38±0.05
SLFL15-0R960G-01TF	960	698~960	0.6	13.0dB Min.@1565~1610MHz 35.0dB Min.@1805~1830MHz 35.0dB Min.@2110~2170MHz 30.0dB Min.@1710~2700MHz	
SLFL15-0R960G-03TF	960	699~960	0.5	24 dB min.@2110~2155MHz	
SLFL15-2R025G-01TF	2025	1710~2025	1.4	10 dB Min.@2400~2500MHz 25 dB Min.@3760~4050MHz 25 dB Min.@5150~5850MHz 25 dB Min.@5640~6075MHz 25 dB Min.@7520~8100MHz 22 dB Min.@9400~10125MHz	
SLFL15-2R025G-02TF	2025	500~2180	0.6	20.0dB Min.@3350~4360MHz 45.0dB Min.@5085~6540MHz	0.38±0.05
SLFL15-2R025G-03TF	2025	1710~2025	0.45 dB Max. @1710~1910MHz 0.5 dB Max. @1910~2025MHz	22 dB Min.@3420~3820MHz 25 dB Min.@3820~4050MHz 25 dB Min.@5130~6075MHz	
SLFL15-2R025G-20TF	2200	1695~2180 2180~2200	0.6 0.63	20 dB min.@3350~4360MHz 45 dB min.@5085~6540MHz 43 dB min.@6540~6600MHz 23 dB min.@9025~10050MHz 20 dB min.@10050~10100MHz 12 dB min.@11000~12750MHz	0.45
SLFL15-2R700G-01TF	2700	2300~2700	0.45	30dB Min.@4600~5400MHz 30dB Min.@6900~8100MHz	0.40±0.05
SLFL15-2R700G-02TF	2700	2300~2700	0.5	25 dB Min.@4600~5400MHz 25 dB Min.@6900~8100MHz	
SLFL15-2R700G-20TF	2700	2300~2700	0.5	25 dB min.@4600~5400MHz 25 dB min.@6900~8100MHz	
SLFL15-5R950G-20TF	2950	4900~5950	0.55	20 dB min.@9800~11900MHz	
SLFL15-7R125G-01TF	7125	5150~7125	0.55	10 dB Min.@10300~14250MHz 20 dB Min.@15450~21375MHz	
SLFL15-7R125G-03TF	7125	5150~7125	0.55	10 dB Min.@10300~14250MHz 20 dB Min.@15450~21375MHz	

SPECIFICATIONS SLFL18 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
Symbol	f_0	BW	IL	-	T
SLFL18-0R960G-21TF	960	698~960	0.45	25 dB Min.@1628~1830MHz	0.70±0.10
				20 dB Min.@1710~2170MHz	
				20 dB Min.@2300~2690MHz	
				23 dB Min.@2097~2745MHz	
				20 dB Min.@2796~3660MHz	
				20 dB Min.@3495~4575MHz	
				17 dB Min.@4194~5490MHz	
SLFL18-0R787G-11TF	787	470~787	0.65	26 dB Min.@1429~1501MHz	0.60±0.10
				35 dB Min.@1554~1574MHz	
				30 dB Min.@1580~1607MHz	
SLFL18-0R960G-03TF	960	698~960	0.7	20 dB Min.@1920~1980MHz	0.60±0.10
				30 dB Min.@1554~1610MHz	
				35 dB Min.@1805~1830MHz	
SLFL18-0R960G-11TF	960	698~960	0.75	35 dB Min.@2110~2170MHz	0.80±0.10
				30 dB Min.@1710~2700MHz	
				28 dB Min.@1427~1920MHz	
SLFL18-0R960G-S09TF	960	698~960	0.35	30 dB Min.@2097~2880MHz	0.60±0.10
				12 dB min.@1574~1605MHz	
				16 dB min.@1648~1698MHz	
				21 dB min.@1760~1830MHz	
				30 dB min.@2472~2494MHz	
				13 dB min.@2495~2547MHz	
				18 dB min.@2640~2745MHz	
				16 dB min.@3296~3396MHz	
				21 dB min.@3520~3660MHz	
				33 dB min.@4120~4245MHz	
				34 dB min.@4400~4575MHz	
				38 dB min.@4944~5094MHz	
				32 dB min.@5280~5490MHz	
				26 dB min.@5768~5943MHz	
				22 dB min.@6160~6405MHz	
SLFL18-0R960G-22TF	960	698~960	0.5	22 dB min.@6592~6792MHz	0.60±0.10
				19 dB min.@7040~7320MHz	
				14 dB min.@7416~7614MHz	
				4 dB min.@7920~8235MHz	
				28 dB Min.@1710~1785MHz	
				28 dB Min.@1785~2300MHz	
				26 dB Min.@2300~2690MHz	
25 dB Min.@2690~3800MHz					
20 dB Min.@3800~5100MHz					
25 dB Min.@5100~5850MHz					
25 dB Min.@5850~5925MHz					

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS SLFL18 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
Symbol	f ₀	BW	IL	-	T
SLFL18-0R960G-31TF	960	698~960	0.9	20 dB Min.@1350~1920MHz 48 dB Min.@2070~2880MHz	0.60±0.10
SLFL18-0R960G-41TF	960	600~960	0.35	25 dB Min.@1738~1920MHz 25 dB Min.@2400~3500MHz	
SLFL18-1R600G-01TF	1600	1608~1624	1.0	35 dB Min.@3216 ~ 3248MHz 35 dB Min.@3824 ~ 4872MHz	
SLFL18-1R850G-01TF	1850	1710~1990	0.5/0.55	30.5 dB Min.@3420 ~ 3980MHz 28.5 dB Min.@5130 ~ 5970MHz	
SLFL18-2R025G-01TF	2025	1710~2025	1.2	20 dB Min.@2400~2500MHz 20 dB Min.@4020~4045MHz 25 dB Min.@6030~6075MHz	0.80±0.10
SLFL18-2R025G-11TF	2025	1880~2025	0.65	26 dB Min.@3760 ~4050MHz 28 dB Min.@5640 ~6075MHz	0.60±0.10
SLFL18-2R025G-06TF	2025	1710~2025	0.55	27 dB Min.@3420~3840MHz 28 dB Min.@4020~4050MHz 20 dB Min.@4900~5950MHz 30 dB Min.@5130~5760MHz 30 dB Min.@6030~6075MHz 25 dB Min.@6840~7680MHz 25 dB Min.@8040~8100MHz 20 dB Min.@8550~9600MHz 20 dB Min.@10050~10125MHz 20 dB Min.@10260~11520MHz 10 dB Min.@12060~12150MHz	0.70±0.10
SLFL18-2R025G-31TF	2025	1710~2025	0.4	25 dB Min.@3420~4050MHz 25 dB Min.@5130~6075MHz 25 dB Min.@8100~12500MHz	0.55±0.10
SLFL18-2R700G-02TF	2700	673~2690	0.5	35 dB Min.@4950~6000MHz 35 dB Min.@6000~7500MHz 35 dB Min.@7500~8100MHz 27 dB Min.@8100~12500MHz	
SLFL18-2R700G-03TF	2700	2300~2700	0.5	30 dB Min.@4600~5400MHz 30 dB Min.@6900~8100MHz	
SLFL18-2R700G-04TF	2700	600~2700	0.5	30 dB Min.@4950~8100MHz 27 dB Min.@8100~12500MHz	
SLFL18-2R700G-06TF	2700	2300~2700	0.45	25 dB Min.@4600~5400MHz 25 dB Min.@6900~8100MHz	0.60±0.10
SLFL18-2R700G-13TF	2700	300~2700	0.8	30 dB Min.@4600~5400MHz 30 dB Min.@6900~8100MHz 25 dB Min.@9200~10800MHz 20/15 dB Min.@11500~13500MHz	
SLFL18-2R700G-14TF	2700	600~2700	0.80	40 dB Min.@3420~3600MHz 20 dB Min.@5150~5960MHz	

SPECIFICATIONS SLFL18 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness	
Units	MHz	MHz	dB	dB	mm	
Symbol	f_0	BW	IL	-	T	
SLFL18-2R700G-S09TF	2690	1710~1980	0.35	5 dB Min. @ 3296~3339MHz	0.60±0.10	
				17 dB Min. @ 3420~3570MHz		
				12 dB Min. @ 3700~3820MHz		
				16 dB Min. @ 3840~3960MHz		
				14 dB Min. @ 4120~4245MHz		
		14 dB Min. @ 4400~4574MHz				
		21 dB Min. @ 4944~5094MHz	0.50			
		30 dB Min. @ 5130~5335MHz				
		30 dB Min. @ 5550~5730MHz				
		30 dB Min. @ 5760~5845MHz				
17 dB Min. @ 5846~5940MHz						
4 dB Min. @ 6160~6405MHz						
SLFL18-2R700G-17TF	2700	1700~2700	0.50 dB Max. @1700~2170MHz	23 dB Min. @3420~3800MHz	0.65±0.10	
			0.65 dB Max. @2170~2500MHz			
			0.90 dB Max. @2500~2700MHz	25 dB Min. @5150~5960MHz		
SLFL18-2R700G-18TF	2700	1700~2700	0.35 dB Max. @1710~1980MHz	5 dB Min. @3296~3339MHz	0.65±0.10	
			0.6 dB Max. @2025~2690MHz	23 dB Min. @3420~3960MHz		
				30 dB Min. @5130~5940MHz		
				20 dB Min. @6160~8250MHz		
SLFL18-2R700G-41TF	2690	699~2690	0.18	20 dB Min. @5150~5960MHz	0.65±0.10	
SLFL18-3R600G-11TF	3800	3300~3800	0.45	17 dB Min. @6600~7600MHz	0.65±0.10	
				20 dB Min. @9900~11400MHz		
SLFL18-3R600G-12TF	3800	3300~3800	0.60	35 dB Min. @6600~7600MHz	0.65±0.10	
				35 dB Min. @9900~11400MHz		
SLFL18-5R500G-31TF	5500	500~5500	1.0	20 dB Min. @6481~7681MHz	0.60±0.10	
				20 dB Min. @7681~12000MHz		
SLFL18-5R950G-31TF	5950	4900~5950	0.70	20 dB Min. @9800MHz	0.60±0.10	
				30 dB Min. @11900MHz		

SLFL21 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
Symbol	f_0	BW	IL	-	T
SLFL21-0R490G-01TF	490	100~490	0.5	15 dB Min. @840~900MHz	0.95±0.10
				20 dB Min. @900~6000MHz	
SLFL21-1R575G-01TF	1575	DC~1575	0.9	30 dB Min. @2175~2400MHz	0.95±0.10
				40 dB Min. @2400~8500MHz	
SLFL21-1R700G-01TF	1700	10~1700	1.8	20 dB Min. @2400~2800MHz	1.02±0.10
				35 dB Min. @2800~8000MHz	
				35 dB Min. @8000~13000MHz	
SLFL21-1R880G-01TF	1880	1805~1880	0.4	30 dB Min. @3610~3760MHz	1.02±0.10
				20 dB Min. @5415~5640MHz	
SLFL21-0R902G-01TF	902.5	$f_0 \pm 12.5 / 902 \sim 928$	0.6/0.5	30 dB Min. @ $2 \times (f_0 \pm 50)$ MHz	0.95±0.10
				30 dB Min. @ $3 \times (f_0 \pm 50)$ MHz	

SPECIFICATIONS SLFL21 TYPE

Part Number	Cut-off Frequency	Bandwidth	Max. IL in BW (@ 25°C)	Attenuation	Thickness
Units	MHz	MHz	dB	dB	mm
Symbol	f_0	BW	IL	-	T
SLFL21-0R915G-S31TF	928	902~928	0.47	30 dB Min.@1804~1856MHz	0.95±0.10
				30 dB Min.@2706~2784MHz	
SLFL21-0R960G-S31TF	960	863~960	0.60	30 dB Min.@1726~1856MHz	
				30 dB Min.@2589~2784MHz	
SLFL21-2R025G-01TF	2025	1880~2025	1.3	20 dB Min.@2300~6100MHz	
				30 dB Min.@3700~4100MHz	
				10 dB Min.@6100~8000MHz	
SLFL21-2R450G-01TF	2450	$f_0 \pm 50.0$	0.5	27 dB Min.@ $2 \times (f_0 \pm 50)$ MHz	
				30 dB Min.@ $3 \times (f_0 \pm 50)$ MHz	
				30 dB Min.@ $4 \times (f_0 \pm 50)$ MHz	
SLFL21-2R500G-01TF	2500	DC~2500	1.2	25 dB Min.@3500~4000MHz	
				35 dB Min.@4000~7000MHz	
SLFL21-2R700G-02TF	2700	1700~2700	0.4	20 dB Min.@4200~5400MHz	1.02±0.10
				20 dB Min.@6300~8100MHz	
SLFL21-5R500G-31TF	5950	4900~5950	0.7	30 dB Min.@9800~11900MHz	0.95±0.10
				20 dB Min.@14700~17850MHz	

Multilayer Chip LC High Pass Filter – SLFH Series

Operating temp. : -40°C ~+85°C



- FEATURES**
- ◆ Small size, light weight
 - ◆ Low insertion loss
 - ◆ Inside shielding
 - ◆ SMD chip based on LTCC technology
 - ◆ Center frequency and attenuation are ready for customization

- APPLICATIONS**
- ◆ Mobile phone and wireless module.
 - ◆ Base station

PRODUCT IDENTIFICATION

1 SLFH	2 15	3 -5R500G	4 -31	5 T	6 F
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1	Type
SLFH	High Pass Filter

2	External Dimensions (L×W) (MM)	
	15 [0402]	1.0×0.5
	21 [0805]	2.0×1.2

3	Center Frequency	
	Example	Nominal Value
	5R500G	5500.0MHz

4	Series Code
	31

5	Packing
	T Tape Carrier Package

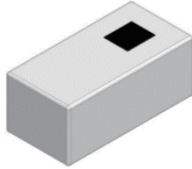
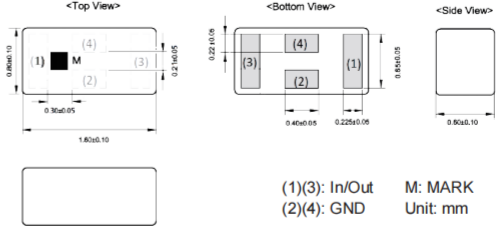
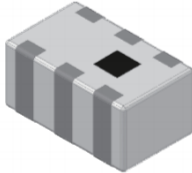
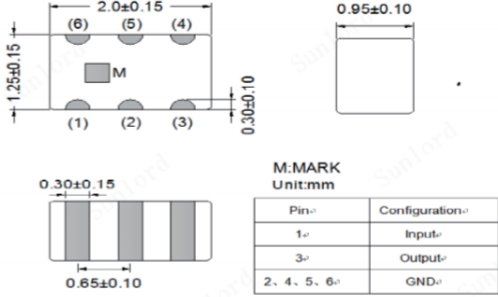
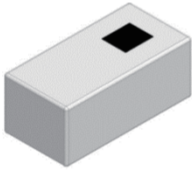
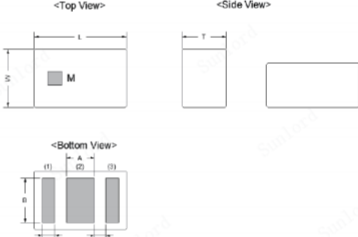
6	Hazardous Substance Free Products
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SHAPE AND DIMENSIONS

<p>SLFH15-5R500G-31TF</p>	<p>Dimensions and Land Patterns</p> <p><Top View> <Bottom View> <Side View></p> <p>(1) (4) : In/Out (2) (3) : GND M : MARK Unit : mm</p>		
<p>SLFH18-2R300G-02TF/ SLFH18-3R600G-33TF</p>	<p>Dimensions and Land Patterns</p> <p><Top View> <Bottom View> <Side View></p>		

Multilayer Chip LC Filter
 Multilayer Chip Balun
 Multilayer Chip Diplexer
 Multilayer Chip Triplexer
 Multilayer Chip LC Coupler
 Multilayer Chip Antenna
 Wire Wound Chip Balun Transformer
 Ceramic Dielectric Filter

SHAPE AND DIMENSIONS

<p>SLFH18-2R300G-33TF/ SLFH18-5R500G-31/33TF</p> 	<p>Dimensions and Land Patterns</p>  <p>(1)(3): In/Out M: MARK (2)(4): GND Unit: mm</p>								
<p>SLFH21-1R500G-31TF</p> 	<p>Dimensions and Land Patterns</p>  <p>M: MARK Unit: mm</p> <table border="1" data-bbox="1078 793 1326 896"> <thead> <tr> <th>Pin^①</th> <th>Configuration^②</th> </tr> </thead> <tbody> <tr> <td>1^①</td> <td>Input^②</td> </tr> <tr> <td>3^①</td> <td>Output^②</td> </tr> <tr> <td>2, 4, 5, 6^①</td> <td>GND^②</td> </tr> </tbody> </table>	Pin ^①	Configuration ^②	1 ^①	Input ^②	3 ^①	Output ^②	2, 4, 5, 6 ^①	GND ^②
Pin ^①	Configuration ^②								
1 ^①	Input ^②								
3 ^①	Output ^②								
2, 4, 5, 6 ^①	GND ^②								
<p>SLFH21-2R400G-01TF</p> 	<p>Dimensions and Land Patterns</p> 								

SPECIFICATIONS SLFH15 TYPE

Part Number	Passband	Max. IL in BW	Min. Return Loss	Min. Attenuation (@25°C)	Characteristic Impedance
Units	MHz	dB	dB	dB	Ω
SLFH15-5R500G-31TF	5150~5950	6.0 dB Max. @5150~5250MHz	8 dB Min @5150~5250MHz	10 dB Min @4800~4960MHz	50
		4.0 dB Max. @5250~5350MHz	12 dB Min @5250~5350MHz		
		4.0 dB Max. @5500~5950MHz	12 dB Min. @5500~5950MHz		

SLFH18 TYPE

Part Number	Passband	Max. IL in BW	Min. Return Loss	Min. Attenuation (@25°C)	Characteristic Impedance
Units	MHz	dB	dB	dB	Ω
SLFH18-2R300G-02TF	2300~2690	1.45 dB Max.	10 dB Min.	20 dB Min. @1710~190/1980MHz	50

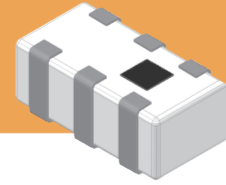
SPECIFICATIONS SLFH18 TYPE

Part Number	Passband	Max. IL in BW	Min. Return Loss	Min. Attenuation (@25°C)	Characteristic Impedance
Units	MHz	dB	dB	dB	Ω
SLFH18-2R300G-33TF	2300~2690	1.1 dB Max. @2300~2400MHz	10 dB Min.	20/25 dB Min.@1710~1995MHz 20/25 dB Min.@1995~2010MHz	50
		0.6 dB Max. @2496~2690MHz			
		0.6 dB Max. @2500~2690MHz			
SLFH18-3R600G-33TF	3400~3800	0.30 dB Max. @3400~3800MHz	1.50 Max. @3400~3600MHz	26 dB Min.@1710~1880MHz	50
			1.68 Max. @3600~3800MHz		
SLFH18-5R500G-31TF	5150~5850	0.4 dB Max. @25°C	1.4 Max.	25 dB Min.@699~1800MHz	50
				30 dB Min.@1800~2000MHz	
				25 dB Min.@2000~2690MHz	
SLFH18-5R500G-33TF	5150~5925	0.40 dB Max. @25°C	1.8 Max	20 dB Min@698~2690MHz	50

SLFH21 TYPE

Part Number	Passband	Max. IL in BW	Min. Return Loss	Min. Attenuation (@25°C)	Characteristic Impedance
Units	MHz	dB	dB	dB	Ω
SLFH21-1R500G-31TF	1358~1582	3.5 dB Max. @1414~1582MHz	10 dB Min.	18 dB Min.@1190MHz	50
				25 dB Min.@1050MHz	
		5.5 dB Max. @1358~1582MHz		15 dB Min.@470MHz	
SLFH21-2R400G-01TF	2400~5850	0.60 Max.	10 dB Min.	30 dB Min.@1610MHz	50

Multilayer Chip Balun – SLBL Series



Operating temp. : -40°C ~+85°C

- FEATURES**
- ◆ Small size, enable high density mounting
 - ◆ Low insertion loss, excellent amplitude and phase balance
 - ◆ Surface mount type, high reliability

- APPLICATIONS**
- ◆ Mobile communication equipment for LTE, 5G systems, etc.
 - ◆ Bluetooth, Wi-Fi, WLAN etc.

PRODUCT IDENTIFICATION

1 SLBL	2 18	3 -2R450G	4 -05	5 -31	6 T
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1 Type	
SLBL	Balun

2 External Dimensions (L×W) (mm)	
06 [0202]	0.6×0.5
15 [0402]	1.0×0.5
18 [0603]	1.6×0.8
21 [0805]	2.0×1.2


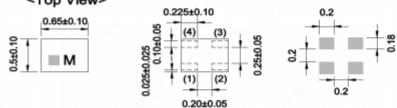


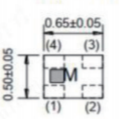

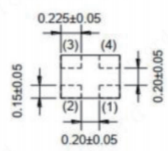
3 Center Frequency	
Example	Nominal Value
2R450G	2450.0MHz
5R400G	5400.0MHz

4 Balance Impedance	
05	50Ω
10	100Ω

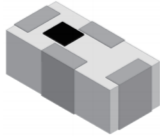
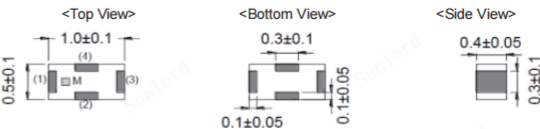
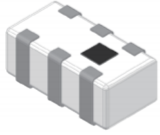
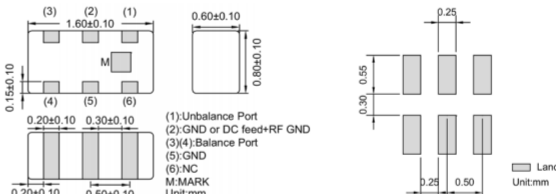
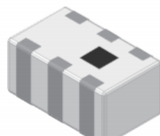
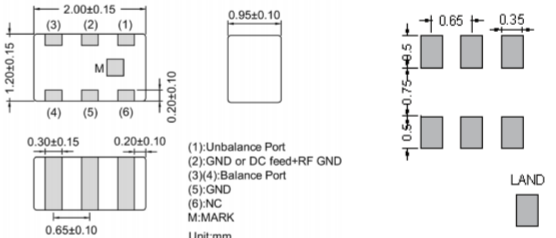
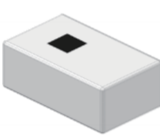
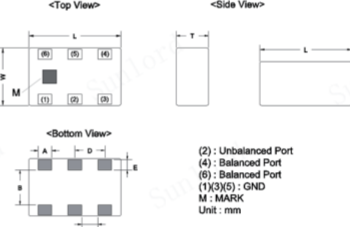
5 Series Code	
01,31 etc.	

6 Packing	
T	Tape Carrier Package

SHAPE AND DIMENSIONS

Type: SLBL06 Series 	Dimensions and Land Patterns		
	<Top View> 	<Side View> 	(1) :GND (2) : Unbalanced Port (3) (4) : Balanced Port M : MARK Unit : mm
SLBL06-1R900G-10-03T 	Dimensions and Land Patterns		
	<Top View> 	<Side View> 	<Bottom View> 
			(1) :GND (2) : Unbalanced Port (3) (4) : Balanced Port M : MARK Unit : mm

SHAPE AND DIMENSIONS

<p>Type: SLBL15 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) : Balanced Port (2) : Unbalanced Port (3) : Balanced Port (4) : GND M : MARK Unit : mm</p>
<p>Type: SLBL18 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1):Unbalance Port (2):GND or DC feed+RF GND (3)(4):Balance Port (5):GND (6):NC M:MARK Unit:mm</p> <p>Land Unit:mm</p>
<p>Type: SLBL21 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>(1):Unbalance Port (2):GND or DC feed+RF GND (3)(4):Balance Port (5):GND (6):NC M:MARK Unit:mm</p> <p>LAND Unit:</p>
<p>SLBL21-1R700G-10-31T</p> 	<p>Dimensions and Land Patterns</p>  <p>(2) : Unbalanced Port (4) : Balanced Port (6) : Balanced Port (1)(3)(5) : GND M : MARK Unit : mm</p>

SPECIFICATIONS SLBL06 TYPE

Part Number	Unbalance Port Impedance	Balance Port Impedance	Frequency Range	Insertion Loss	Balance Port VSWR	Amplitude Difference	Phase Difference	Power Capacity
Units	Ω	Ω	MHz	dB	-	dB	Deg.	mW
SLBL06-0R770G-10-01T	50	100	698~960	0.6 Max.@25°C	2.0 Max.	3.0 Max.	180±10	500
SLBL06-1R900G-10-03T	50	100	1710~2200	0.6 Max.@25°C	2.0 Max.	3.0 Max.	180±15	500
SLBL06-2R500G-10-01T	50	100	2300~2700	0.55 Max.@25°C	2.0 Max.	2.5 Max.	180±10	500

SLBL15 TYPE

Part Number	Unbalance Port Impedance	Balance Port Impedance	Frequency Range	Insertion Loss	Balance Port VSWR	Amplitude Difference	Phase Difference	Power Capacity
Units	Ω	Ω	MHz	dB	-	dB	Deg.	mW
SLBL15-0R770G-10-31T	50	100	758~821	0.6 Max.@25°C	1.5 Max.	2.0 Max.	180±10	500
SLBL15-1R900G-10-31T	50	100	1805~2025	0.6 dB Max.@25°C	1.5 Max.	2.5 Max.	180±10	500

Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

Multilayer Chip LC Coupler

Multilayer Chip Antenna

Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

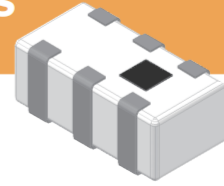
SPECIFICATIONS SLBL18 TYPE

Part Number	Unbalance Port Impedance	Balance Port Impedance	Frequency Range	Insertion Loss	Balance Port VSWR	Amplitude Difference	Phase Difference	Power Capacity
Units	Ω	Ω	MHz	dB	-	dB	Deg.	mW
SLBL18-1R500G-05-31T	50	50	699~960	1.4dB Max.@25°C	2.0 Max.	± 1.2 dB	180 \pm 10	3.0W Max.
			1710~1995	1.3dB Max.@25°C				
			2000~2700	1.5dB Max.@25°C				
SLBL18-1R500G-10-32T	50	100	673~2700	1.7dB Max.@25°C	2.45 Max.	± 1.5 dB	180 \pm 15	3.0W Max.
SLBL18-2R450G-05-02T	50	50	2450 \pm 50	0.9 Max.@25°C 1.0 Max. @ -40 to +85°C	2.0 Max.	2.0 Max.	180 \pm 10	500
SLBL18-2R500G-05-31T	50	50	2300~2700	1.2 dB Max.@25°C	2.0 Max.	± 1.5 dB	180 \pm 10	3.0W Max.
SLBL18-2R500G-10-31T	50	100	2300~2700	1.2 dB Max.@25°C	2.0 Max.	± 1.5 dB	180 \pm 10	3.0W Max.
SLBL18-3R600G-05-31T	50	50	3300~3900	1.2 dB Max.@25°C	2.0 Max.	± 1.5 dB	180 \pm 15	2.0W Max.
SLBL18-3R600G-10-31T	50	100	3300~3900	1.0 dB Max.@25°C	2.0 Max.	± 1.2 dB	180 \pm 15	2.0W Max.
SLBL18-4R500G-05-31T	50	50	3200~4000	1.1 dB Max.@25°C	2.1 Max.	± 1.2 dB	180 \pm 12	3.0W Max.
			4000~5000	1.0 dB Max.@25°C	2.0 Max.			
			5000~6000	1.0 dB Max.@25°C	2.0 Max.			
SLBL18-4R500G-10-31T	50	100	3200~4000	1.1 dB Max.@25°C	2.1 Max.	± 1.2 dB	180 \pm 12	3.0W Max.
			4000~5000	1.0 dB Max.@25°C	2.0 Max.			
			5000~6000	1.0 dB Max.@25°C	2.0 Max.			

SLBL21 TYPE

Part Number	Unbalance Port Impedance	Balance Port Impedance	Frequency Range	Insertion Loss	Balance Port VSWR	Amplitude Difference	Phase Difference	Power Capacity
Units	Ω	Ω	MHz	dB	-	dB	Deg.	mW
SLBL21-2R400G-05-01T	50	50	2400 \pm 100	0.8 Max.@25°C 0.9 Max. @ -40 to +85°C	2.0 Max.	2.0 Max.	180 \pm 10	500
SLBL21-0R800G-20-01T	50	200	800~2600	1.5 dB Max.@25°C	-	± 1.3 dB Max.	180 \pm 13	3.0W Max.
			700~2800	1.6 dB Max.@25°C		± 1.3 dB Max.	180 \pm 16.5	
SLBL21-0R900G-05-31T	50	50	800~1000	1.2 dB Max.@25°C	-	± 2.0 dB Max.	180 \pm 10	3.0W Max.
SLBL21-1R700G-10-31T	50	100	400~2500	3.0 dB Max.	-	± 1.4 dB Max.	180 \pm 12	2.0 W Max.
			2500~3000	4.0 dB Max.				
SLBL21-2R400G-10-03T	50	100	2400 \pm 100	0.9 Max.@25°C 1.0 Max. @ -40 to +85°C	2.0 Max.	2.0 Max.	180 \pm 10	500
			2650~3500	1.0 dB Max.@25°C	-	± 1.3 dB Max.	180 \pm 13	3W Max.
2000~4000	1.3 dB Max.@25°C	± 1.48 dB Max.	180 \pm 16.5					
SLBL21-5R400G-10-31T	50	100	4900~5900	1.0 dB Max.@25°C	2.0 Max.	± 2.0 dB	180 \pm 10	3.0W Max.
SLBL21-5R500G-10-33T	50	100	3000~8000	1.5 dB Max.@25°C	2.3 Max.	± 2.5 dB	180 \pm 20	3.0W Max.

Multilayer Chip LC Diplexer – SLFD Series



Operating temp. : -40°C ~+ 85°C

- FEATURES**
- ◆ Small and low profile enables high density mounting
 - ◆ Low insertion loss & high attenuation
 - ◆ Excellent solderability

- APPLICATIONS**
- ◆ Mobile communication equipment for LTE, 5G systems, etc.
 - ◆ Bluetooth, Wi-Fi, WLAN etc.

PRODUCT IDENTIFICATION

1 SLFD	2 18	3 -2R450G	4 -23	5 T
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1 Type	
SLFD	LC Diplexer

2 External Dimensions (L×W) (mm)	
15 [0402]	1.0×0.5
18 [0603]	1.6×0.8
21 [0805]	2.0×1.2
22 [1008]	2.5×2.0

3 Center Frequency	
Example	Nominal Value
2R450G	2450MHz

4 Series Code	
01, 02, etc	

5 Packing	
T	Tape Carrier Package

SHAPE AND DIMENSIONS

Type: SLFD15 Series 	Dimensions and Land Patterns <p>(1) : Lower Freq. Port (2) : Higher Freq. Port (3) : Common Port (4) : GND M: MARK Unit:mm</p>
SLFD15-5R950G-04T/14T/S06T 	Dimensions and Land Patterns <p>(1) : GND (2) : Common Port (3) : Lower Freq. Port (4) : Higher Freq. Port M: MARK Unit:mm</p>

Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

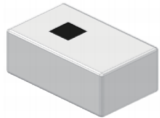
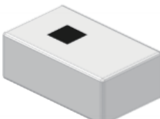
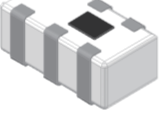
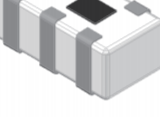


Multilayer Chip LC Coupler

Multilayer Chip Antenna

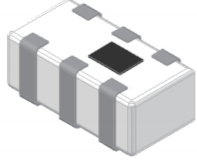
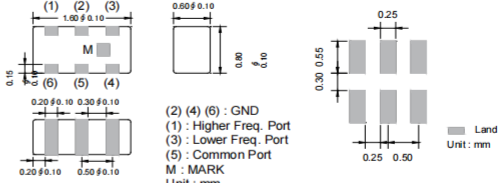
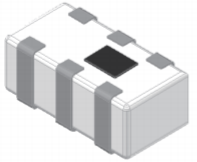
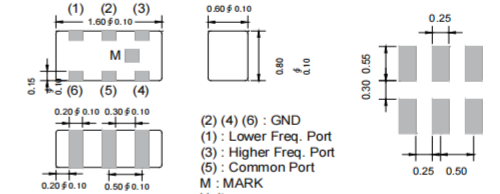
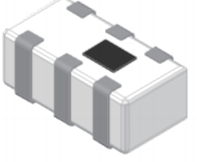
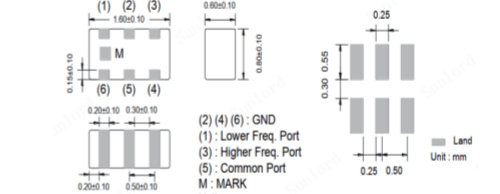
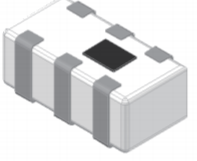
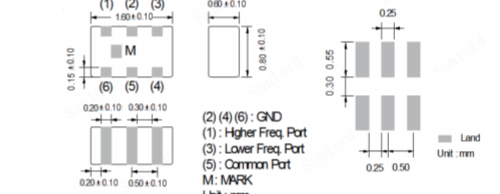
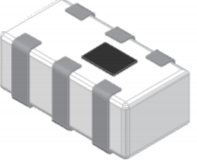
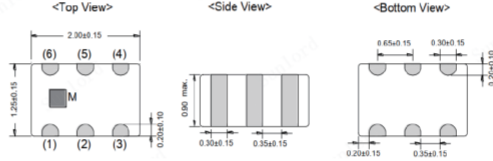
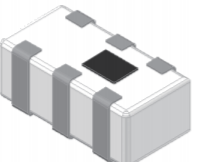
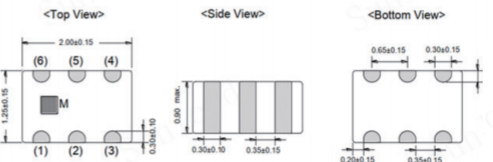
Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SHAPE AND DIMENSIONS

<p>SLFD18-2R200G-01T/ SLFD18-5R950G-12T</p>	<p>Dimensions and Land Patterns</p>
	<p>(1) (3) (5) : GND (4) : Lower Freq. Port (6) : Higher Freq. Port (2) : Common Port M : MARK Unit : mm</p>
<p>SLFD18-2R200G-02T/ SLFD18-3R000G-31T</p>	<p>Dimensions and Land Patterns</p>
	<p>(1) (3) (5) : GND (4) : Higher Freq. Port (6) : Lower Freq. Port (2) : Common Port M : MARK Unit : mm</p>
<p>SLFD18-2R450G-22/24T/S34T</p>	<p>Dimensions and Land Patterns</p>
	<p>(2) (4) (6) : GND (1) : Lower Freq. Port (3) : Higher Freq. Port (5) : Common Port M : MARK Unit : mm</p>
<p>SLFD18-2R450G-23/25T/S33T/ SLFD18-3R000G-32T/</p>	<p>Dimensions and Land Patterns</p>
	<p>(2) (4) (6) : GND (1) : Higher Freq. Port (3) : Lower Freq. Port (5) : Common Port M : MARK Unit : mm</p>
<p>SLFD18-2R450G-26T</p>	<p>Dimensions and Land Patterns</p>
	<p>(1) : GND (2) : High Band (3) : Common (4) : Low Band M : MARK Unit : mm</p>
<p>SLFD18-2R600G-01T/ SLFD18-5R950G-11T</p>	<p>Dimensions and Land Patterns</p>
	<p>(1) (3) (5) : GND (6) : Lower Freq. Port (4) : Higher Freq. Port (2) : Common Port M : MARK Unit : mm</p>

SHAPE AND DIMENSIONS

<p>SLFD18-5R950G-01/07/35/41T/67T</p> 	<p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND (1) : Higher Freq. Port (3) : Lower Freq. Port (5) : Common Port M : MARK Unit : mm</p>
<p>SLFD18-5R950G-02/08/36/42T/68T</p> 	<p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND (1) : Lower Freq. Port (3) : Higher Freq. Port (5) : Common Port M : MARK Unit : mm</p>
<p>SLFD18-5R950G-03/61T/S73T</p> 	<p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND (1) : Lower Freq. Port (3) : Higher Freq. Port (5) : Common Port M : MARK Unit : mm</p>
<p>SLFD18-5R950G-04T/20T/62T/S74T</p> 	<p>Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND (1) : Higher Freq. Port (3) : Lower Freq. Port (5) : Common Port M : MARK Unit : mm</p>
<p>SLFD21-1R400G-01/03T/ SLFD21-1R500G-33T/ SLFD21-2R690G-03T</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) : GND (2) : Common (3) : GND (4) : High-band (5) : GND (6) : Low-band M : MARK Unit : mm</p>
<p>SLFD21-1R400G-02T/ SLFD21-2R690G-04T</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) : GND (2) : Common (3) : GND (4) : Low-band (5) : GND (6) : High-band M : MARK Unit : mm</p>

Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

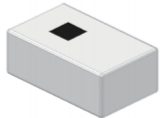
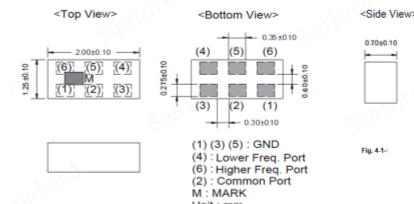
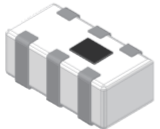
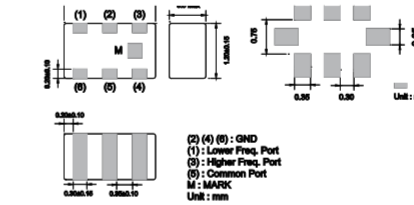
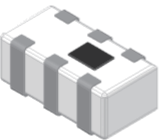
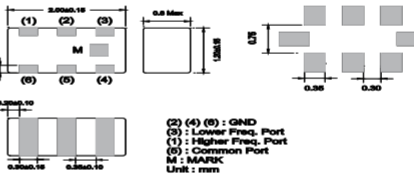
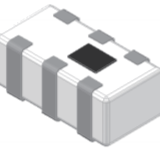
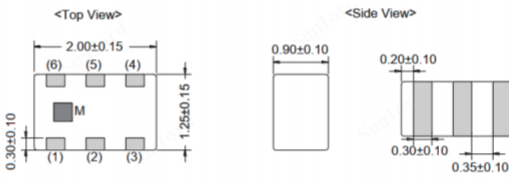
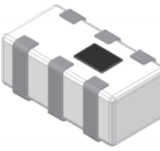
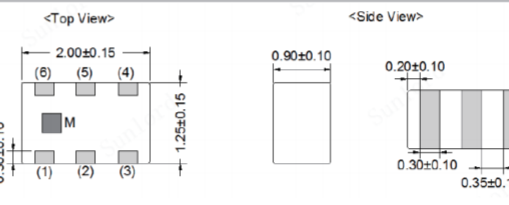
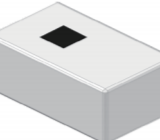
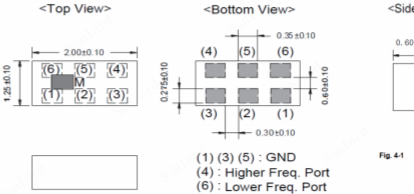
Multilayer Chip LC Coupler

Multilayer Chip Antenna

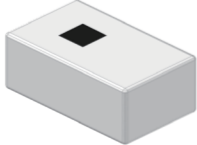
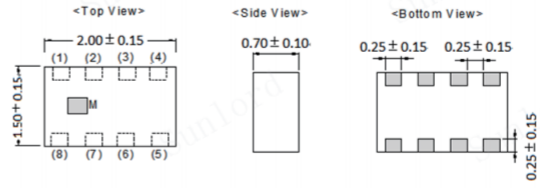
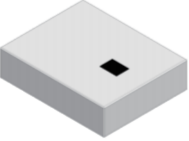
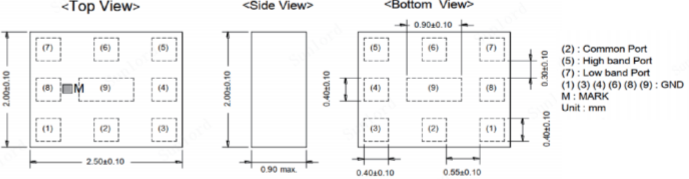
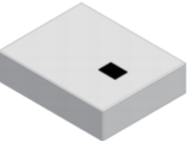
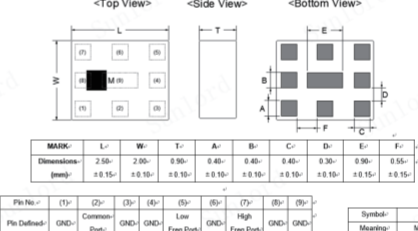
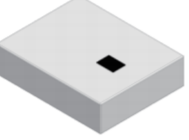
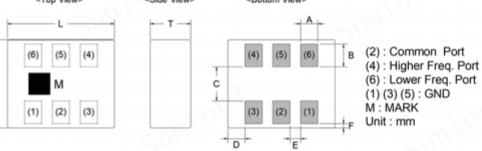
Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SHAPE AND DIMENSIONS

<p>SLFD21-1R400G-04/06/S42T/ SLFD21-2R690G-03T</p> 	<p style="text-align: center;">Dimensions and Land Patterns</p> <p style="text-align: center;"><Top View> <Bottom View> <Side View></p>  <p>(1) (3) (5) : GND (4) : Lower Freq. Port (6) : Higher Freq. Port (2) : Common Port M : MARK Unit : mm</p>
<p>SLFD21-2R200G-01T</p> 	<p style="text-align: center;">Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND (1) : Lower Freq. Port (3) : Higher Freq. Port (5) : Common Port M : MARK Unit : mm</p>
<p>SLFD21-2R200G-02T</p> 	<p style="text-align: center;">Dimensions and Land Patterns</p>  <p>(2) (4) (6) : GND (3) : Lower Freq. Port (1) : Higher Freq. Port (5) : Common Port M : MARK Unit : mm</p>
<p>SLFD21-2R200G-03T/ SLFD21-2R690G-01T/ SLFD21-5R950G-01T</p> 	<p style="text-align: center;">Dimensions and Land Patterns</p> <p style="text-align: center;"><Top View> <Side View></p>  <p>(1) : GND (2) : Common Port (3) : GND (4) : Higher Freq. Port (5) : GND (6) : Lower Freq. Port M : MARK Unit : mm</p>
<p>SLFD21-2R200G-04T/ SLFD21-2R690G-02T/ SLFD21-5R950G-02/12T</p> 	<p style="text-align: center;">Dimensions and Land Patterns</p> <p style="text-align: center;"><Top View> <Side View></p>  <p>(1) : GND (2) : Common Port (3) : GND (4) : Lower Freq. Port (5) : GND (6) : Higher Freq. Port M : MARK Unit : mm</p>
<p>SLFD21-3R000G-31T/ SLFD21-1R400G-07/S41T/ SLFD21-4R000G-S01T/ SLFD21-4R500G-31/S35T</p> 	<p style="text-align: center;">Dimensions and Land Patterns</p> <p style="text-align: center;"><Top View> <Bottom View> <Side View></p>  <p>(1) (3) (5) : GND (4) : Higher Freq. Port (6) : Lower Freq. Port (2) : Common Port M : MARK Unit : mm</p>

SHAPE AND DIMENSIONS

<p>SLFD21-5R950G-S51T</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) : 5G_TRXA (5) : GND (2) : GND (6) : GND (3) : 2.4G_RXG (7) : ANT (4) : 2.4G_TXG (8) : GND M : MARK Unit : mm</p>																																																						
<p>SLFD22-1R300G-31T/ SLFD22-1R500G-31T/ SLFD22-3R000G-31T/ SLFD22-4R500G-31T</p> 	<p>Dimensions and Land Patterns</p>  <p>(2) : Common Port (5) : High band Port (7) : Low band Port (1) (3) (4) (6) (8) (9) : GND M : MARK Unit : mm</p>																																																						
<p>SLFD22-1R300G-32T/ SLFD22-3R000G-32T</p> 	<p>Dimensions and Land Patterns</p>  <table border="1" data-bbox="869 1002 1257 1045"> <thead> <tr> <th>MARK</th> <th>L¹</th> <th>W¹</th> <th>T¹</th> <th>A¹</th> <th>B¹</th> <th>C¹</th> <th>D¹</th> <th>E¹</th> <th>F¹</th> </tr> </thead> <tbody> <tr> <td>Dimensions</td> <td>2.50[±]</td> <td>2.00[±]</td> <td>0.90[±]</td> <td>0.40[±]</td> <td>0.40[±]</td> <td>0.40[±]</td> <td>0.30[±]</td> <td>0.90[±]</td> <td>0.55[±]</td> </tr> <tr> <td>(mm)</td> <td>± 0.15[±]</td> <td>± 0.15[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> <td>± 0.15[±]</td> <td>± 0.15[±]</td> </tr> </tbody> </table> <table border="1" data-bbox="842 1067 1294 1101"> <thead> <tr> <th>Pin No.</th> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>(4)</th> <th>(5)</th> <th>(6)</th> <th>(7)</th> <th>(8)</th> <th>(9)</th> <th>Symbol</th> <th>M</th> </tr> </thead> <tbody> <tr> <td>Pin Defn</td> <td>GND</td> <td>Common Port</td> <td>GND</td> <td>GND</td> <td>Low Freq. Port</td> <td>High Freq. Port</td> <td>GND</td> <td>GND</td> <td>GND</td> <td>Meaning</td> <td>Mark</td> </tr> </tbody> </table>	MARK	L ¹	W ¹	T ¹	A ¹	B ¹	C ¹	D ¹	E ¹	F ¹	Dimensions	2.50 [±]	2.00 [±]	0.90 [±]	0.40 [±]	0.40 [±]	0.40 [±]	0.30 [±]	0.90 [±]	0.55 [±]	(mm)	± 0.15 [±]	± 0.15 [±]	± 0.10 [±]	± 0.10 [±]	± 0.10 [±]	± 0.10 [±]	± 0.10 [±]	± 0.15 [±]	± 0.15 [±]	Pin No.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	Symbol	M	Pin Defn	GND	Common Port	GND	GND	Low Freq. Port	High Freq. Port	GND	GND	GND	Meaning	Mark
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<p>SLFD22-2R300G-01/02T</p> 	<p>Dimensions and Land Patterns</p>  <p>(2) : Common Port (4) : Higher Freq. Port (6) : Lower Freq. Port (1) (3) (5) : GND M : MARK Unit : mm</p> <table border="1" data-bbox="842 1338 1326 1394"> <thead> <tr> <th>MARK</th> <th>L¹</th> <th>W¹</th> <th>T¹</th> <th>A¹</th> <th>B¹</th> <th>C¹</th> <th>D¹</th> <th>E¹</th> <th>F¹</th> </tr> </thead> <tbody> <tr> <td>Dimensions</td> <td>2.50[±]</td> <td>2.00[±]</td> <td>0.80[±]</td> <td>0.40[±]</td> <td>0.525[±]</td> <td>0.75[±]</td> <td>0.40[±]</td> <td>0.25[±]</td> <td>0.10[±]</td> </tr> <tr> <td>(mm)</td> <td>± 0.15[±]</td> <td>± 0.15[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> <td>± 0.10[±]</td> </tr> </tbody> </table>	MARK	L ¹	W ¹	T ¹	A ¹	B ¹	C ¹	D ¹	E ¹	F ¹	Dimensions	2.50 [±]	2.00 [±]	0.80 [±]	0.40 [±]	0.525 [±]	0.75 [±]	0.40 [±]	0.25 [±]	0.10 [±]	(mm)	± 0.15 [±]	± 0.15 [±]	± 0.10 [±]	± 0.10 [±]	± 0.10 [±]	± 0.10 [±]	± 0.10 [±]	± 0.10 [±]	± 0.10 [±]																								
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SPECIFICATIONS SLFD15 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD15-5R950G-01T	50	Low Band	2400~2500	0.5	15 dB min.	-	16 dB Min.@4800~6000MHz
							15 dB Min.@7200~7500MHz
							27 dB Min.@700~2025MHz
		High Band	5150~5950	1.5	15 dB min.	-	28 dB Min.@2400~2690MHz
							10 dB Min.@3500~3700MHz
							11 dB Min.@7250~7800MHz
20 dB Min.@10300~11700MHz							

Multilayer Chip LC Filter
 Multilayer Chip Balun
 Multilayer Chip Diplexer
 Multilayer Chip Triplexer
 Multilayer Chip LC Coupler
 Multilayer Chip Antenna
 Wire Wound Chip Balun Transformer
 Ceramic Dielectric Filter

SPECIFICATIONS SLFD15 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD15-5R950G-03T	50	Low Band	2400~2500	0.45	15 dB min.	-	18.0 dB min.@4800~5000 MHz
		High Band	5150~5950	0.8	10 dB min.		20.0 dB min.@7200~7500 MHz
SLFD15-5R950G-04T	50	Low Band	2400~2500	0.45	-	-	30.0 dB min.@1545~1610 MHz
		High Band	5150~5950	0.8			25.0 dB min.@2400~2500 MHz
SLFD15-5R950G-13T	50	Low Band	2400~2500	0.5	10	-	21.0 dB min.@2500~2690 MHz
		High Band	5150~7125	0.95			9 dB min.@10300~11900 MHz
SLFD15-5R950G-14T	50	Low Band	2400~2500	0.5	10	-	13.5 dB min.@11900~12490 MHz
		High Band	5150~7125	0.95			11.5 dB min.@12490~14250 MHz
SLFD15-5R950G-S05T	50	Low Band	2400~2500	0.6	10	-	15.0 dB min.@4800~6000 MHz
		High Band	4900~5950	1.0			15.0 dB min.@5150~7125 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	20.0 dB min.@7200~7500 MHz
		High Band	4900~5950	1.0			24.0 dB min.@500~2400 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	26.0 dB min.@2400~2500 MHz
		High Band	4900~5950	1.0			19.0 dB min.@2500~2690 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	9.0 dB min.@10300~11900 MHz
		High Band	4900~5950	1.0			13.5 dB min.@11900~12490 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	11.5 dB min.@12490~14250 MHz
		High Band	4900~5950	1.0			11.5 dB min.@12490~14250 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	8.0 dB min.@15510~21375 MHz
		High Band	4900~5950	1.0			23 dB min.@4800~6000 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	23 dB min.@7200~7500 MHz
		High Band	4900~5950	1.0			25 dB min.@30~2400 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	27 dB min.@2400~2500 MHz
		High Band	4900~5950	1.0			23 dB min.@2500~2690 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	20 dB min.@9800~11900 MHz
		High Band	4900~5950	1.0			23 dB min.@4800~6000 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	23 dB min.@7200~7500 MHz
		High Band	4900~5950	1.0			25 dB min.@30~2400 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	27 dB min.@2400~2500 MHz
		High Band	4900~5950	1.0			23 dB min.@2500~2690 MHz
SLFD15-5R950G-S06T	50	Low Band	2400~2500	0.6	10	-	20 dB min.@9800~11900 MHz
		High Band	4900~5950	1.0			23 dB min.@4800~6000 MHz

SPECIFICATIONS SLFD18 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD18-2R200G-01T	50	Low Band	698~960	0.8	-	-	20 dB Min.@698~960MHz
		High Band	1710~2700	0.7			25 dB Min.@1710~2700MHz
SLFD18-2R200G-02T	50	Low Band	698~960	0.8	-	-	25 dB Min.@1710~2700MHz
		High Band	1710~2700	0.7			20 dB Min.@698~960MHz
SLFD18-2R450G-22T	50	Low Band	1570~1610	0.5	-	-	20 dB Min.@2400~2500MHz
		High Band	2400~2500	0.5			20 dB Min.@1570~1610MHz
SLFD18-2R450G-23T	50	Low Band	1570~1610	0.45	-	-	20 dB Min.@2400~2500MHz
		High Band	2400~2500	0.5			20 dB Min.@1570~1610MHz
SLFD18-2R450G-24T	50	Low Band	1560~1607	0.65	-	-	15 dB Min.@2300~2700MHz
		High Band	2300~2700	0.75			17 dB Min.@1560~1607MHz
SLFD18-2R450G-25T	50	Low Band	1560~1607	0.65	-	-	15 dB Min.@2300~2700MHz
		High Band	2300~2700	0.75			17 dB Min.@1560~1607MHz
SLFD18-2R450G-S33T	50	Low Band Low Band	704~1610	0.40 dB max. @704~960 MHz	15	-	15 dB min.@2400~2500 MHz
				0.40 dB max. @1572~1578 MHz			10dB min.@2500~2690 MHz
				0.45 dB max. @1570~1610 MHz			17dB min.@4900~5150 MHz
		0.55 dB max. @2400~2690 MHz	17 dB min.@5150~5850 MHz				
High Band	2400~5950	0.50 dB max. @4900~5950 MHz	12	16 dB min.@5850~5950 MHz			
SLFD18-2R450G-S34T	50	Low Band Low Band	704~1610	0.40 dB max. @704~960 MHz	15	-	15 dB min.@2400~2500 MHz
				0.40 dB max. @1572~1578 MHz			10dB min.@2500~2690 MHz
				0.45 dB max. @1570~1610 MHz			17dB min.@4900~5150 MHz
		0.55 dB max. @2400~2690 MHz	17 dB min.@5150~5850 MHz				
High Band	2400~5950	0.50 dB max. @4900~5950 MHz	12	16 dB min.@5850~5950 MHz			
SLFD18-3R000G-31T	50	Low Band	698~2690	0.8	-	2	13 dB Min.@3400~3800MHz
		High Band	3400~3800 5150~5850	0.9 0.6			20 dB Min.@5150~5850MHz
SLFD18-3R000G-32T	50	Low Band	698~2690	0.8	-	2	14 dB Min.@698~2690MHz
		High Band	3400~3800 5150~5850	0.9 dB max. @3400~3800MHz 0.6 dB max. @5150~5850MHz			18 dB Min.@10300~11700MHz
SLFD18-5R950G-S01T	50	Low Band	2400~2500	0.65	-	2	35 dB Min.@4800~5000MHz
		High Band	4900~5950	0.75			30 dB Min.@7200~7500MHz
SLFD18-5R950G-S02T	50	Low Band	2400~2500	0.55	-	2	28 dB Min.@30~2100MHz
							25 dB Min.@30~2100MHz
		High Band	4900~5950	0.75			30 dB Min.@2400~2500MHz
							12 dB Min.@8100~8900MHz
20 dB Min.@9800~11900MHz							
15 dB Min.@14700~17850MHz							

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS SLFD18 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD18-5R950G-S03T	50	Low Band	2400~2500	0.5	-	2	35 dB Min.@4800~5000MHz
			4900~5950	0.9			25 dB Min.@7200~7500MHz
		High Band	2400~2500	0.5			25 dB Min.@300~2100MHz
			4900~5950	0.9			32 dB Min.@2400~2700MHz
			698~2690	0.4			20 dB Min.@9800~11950MHz
SLFD18-5R950G-S04T	50	Low Band	2400~2500	0.5	-	2	15 dB Min.@14700~17850MHz
			4900~5950	0.9			25 dB Min.@300~2100MHz
		High Band	2400~2500	0.5			32 dB Min.@2400~2700MHz
			4900~5950	0.9			35 dB Min.@4800~5000MHz
			698~2690	0.4			25 dB Min.@7200~7500MHz
SLFD18-5R950G-S07T	Complex Conjugate to IC chipset	Low Band	2400~2500	0.4	-	1.5	23 dB Min.@5000~5950MHz
			4900~5950	0.6			25 dB Min.@7200~7500MHz
		High Band	2400~2500	0.4		1.8	25 dB Min.@824~2170MHz
			4900~5950	0.6			28 dB Min.@2400~2700MHz
			698~2690	0.4			20 dB Min.@9800~11900MHz
SLFD18-5R950G-S08T	Complex Conjugate to IC chipset	Low Band	2400~2500	0.4	-	1.5	21 dB Min.@4800~5000MHz
			4900~5950	0.6			23 dB Min.@5000~5950MHz
		High Band	2400~2500	0.4		1.8	25 dB Min.@7200~7500MHz
			4900~5950	0.6			25 dB Min.@824~2170MHz
			698~2690	0.4			28 dB Min.@2400~2700MHz
SLFD18-5R950G-11T	50	Low Band	698~2690	0.35 dB Max. @698~960MHz	-	1.8	32 dB Min.@4800~5000MHz
				0.45 dB Max. @1427~2400MHz			35 dB Min.@5000~5950MHz
				0.60 dB Max. @2400~2500MHz			20 dB Min.@7200~7500MHz
				0.60 dB Max. @2500~2690MHz			19 dB Min.@7635~8070MHz
		High Band	5150~5850	0.7	-	1.8	32 dB Min.@698~1805MHz
							32 dB Min.@1805~1950MHz
							34 dB Min.@1950~2400MHz
							40 dB Min.@2400~2500MHz
							32 dB Min.@2500~2690MHz
							16 dB Min.@10300~11700MHz
SLFD18-5R950G-12T	50	Low Band	698~2690	0.35 dB Max. @698~960MHz	-	1.8	32 dB Min.@4800~5000MHz
				0.45 dB Max. @1427~2400MHz			35 dB Min.@5000~5950MHz
				0.60 dB Max. @2400~2500MHz			20 dB Min.@7200~7500MHz
				0.60 dB Max. @2500~2690MHz			19 dB Min.@7635~8070MHz
		High Band	5150~5850	0.7	-	1.8	32 dB Min.@698~1805MHz
							32 dB Min.@1805~1950MHz
							34 dB Min.@1950~2400MHz
							40 dB Min.@2400~2500MHz
							32 dB Min.@2500~2690MHz
							20 dB Min.@10300~11700MHz

SPECIFICATIONS SLFD18 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD18-5R950G-20T	50	Low Band	2400~2500	0.6	-	1.8	30 dB Min.@4800~5000MHz
			25 dB Min.@7200~7500MHz				
		High Band	4900~6000	0.75	28 dB Min.@30~2700MHz		
			20 dB Min.@9800~11900MHz				
SLFD18-5R950G-35T	50	Low Band	2400~2500	0.95	-	-	12 dB Min.@14700~17850MHz
							20 dB Min.@700~1300MHz
							25 dB Min.@4800~5000MHz
		High Band	4900~6000	1			30 dB Min.@7200~7500MHz
							27 dB Min.@1200~1500MHz
							26 dB Min.@1600~2000MHz
SLFD18-5R950G-36T	50	Low Band	2400~2500	0.95	-	-	25 dB Min.@2300~3000MHz
							15 dB Min.@98000~12000MHz
							15 dB Min.@14700~18000MHz
		High Band	4900~6000	1			20 dB Min.@700~1300MHz
							25 dB Min.@4800~5000MHz
							30 dB Min.@7200~7500MHz
SLFD18-5R950G-61T	50	Low Band	2400~2500	0.60	-	-	27 dB Min.@1200~1500MHz
							26 dB Min.@1600~2000MHz
							25 dB Min.@2300~3000MHz
		High Band	5170~7125	0.90			15 dB Min.@98000~12000MHz
							15 dB Min.@14700~18000MHz
							25 Min.@4800~5000MHz
SLFD18-5R950G-62T	50	Low Band	2400~2500	0.6	12	-	23 Min.@5170~7500MHz
							20 Min.@9600~10000MHz
							18 Min.@12000~12500MHz
		High Band	5170~7125	0.9			28 Min.@1425~1607MHz
							30 Min.@1710~2200MHz
							26 Min.@2300~2500MHz
SLFD18-5R950G-67T	50	Low Band	2400~2500	0.85	15	-	20 Min.@2500~2690MHz
							15 Min.@10340~14250MHz
							15 Min.@15510~19500MHz
		High Band	5170~7125	1.2			9 Min.@3400~3800MHz
							15 Min.@10340~14250MHz
							15 Min.@15510~19500MHz
SLFD18-5R950G-62T	50	Low Band	2400~2500	0.6	12	-	25 min.@4800~5000MHz
							23 min.@5170~7500MHz
							20 min.@9600~10000MHz
		High Band	5170~7125	0.9			18 min.@12000~12500MHz
							25 min.@70~960MHz
							28 min.@1425~1607MHz
SLFD18-5R950G-67T	50	Low Band	2400~2500	0.85	15	-	30 min.@1710~2200MHz
							26 min.@2300~2500MHz
							20 min.@2500~2690MHz
		High Band	5170~7125	1.2			9 min.@3400~3800MHz
							15 min.@10340~14250MHz
							15 min.@15510~19500MHz
SLFD18-5R950G-67T	50	Low Band	2400~2500	0.85	15	-	15 dB min. (16 dB typ.) @30~1000MHz
							30 dB min. (31 dB typ.) @4800~7125MHz
							30 dB min. (31 dB typ.) @7200~7500MHz
		High Band	5170~7125	1.2			15 dB min. (34 dB typ.) @7700~12000MHz
							15 dB min. (33 dB typ.) @100~2300MHz
							38 dB min. (40 dB typ.) @2400~2500MHz
High Band	5170~7125	1.2	15 dB min. (24 dB typ.) @2700~3500MHz				
			25 dB min. (33 dB typ.) @10300~14250MHz				
			15 dB min. (20 dB typ.) @15450~21375MHz				

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS SLFD18 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD18-5R950G-68T	50	Low Band	2400~2500	0.85	15	-	15 dB min. (16 dB typ.) @30~1000MHz
							30 dB min. (31 dB typ.) @4800~7500MHz
							15 dB min. (34 dB typ.) @7700~7950MHz
							15 dB min. (32 dB typ.) @7500~12000MHz
		High Band	5170~7125	1.2	11		15 dB min. (33 dB typ.) @100~2300MHz
							38 dB min. (40 dB typ.) @2400~2500MHz
							15 dB min. (24 dB typ.) @2700~3500MHz
							25 dB min. (33 dB typ.) @10300~14250MHz
15 dB min. (20 dB typ.) @15450~21375MHz							
SLFD18-5R950G-S74T	50	Low Band	2400~2500	0.35 dB max. @617~2400 MHz	12	-	20 dB min. @4800~5000MHz
				0.35 dB max. @2400~2500 MHz			20 dB min. @5150~7125MHz
				0.40 dB max. @2500~2690 MHz			23 dB min. @7200~7500MHz
				0.40 dB max. @5150~5925 MHz			23 dB min. @9600~10000MHz
		High Band	5170~7125	0.90 dB max. @5150~5925 MHz	22 dB min. @12000~12500MHz		
				0.75 dB max. @5925~7125 MHz	25 dB min. @617~960MHz		
					25 dB min. @1427~2690MHz		
					20 dB min. @3300~4200MHz		
		28 dB min. @10300~14250MHz					
		15 dB min. @15450~21375MHz					
SLFD18-5R950G-S73T	50	Low Band	2400~2500	0.35 dB max. @617~2400 MHz	12	-	20 dB min. @4800~5000MHz
				0.35 dB max. @2400~2500 MHz			20 dB min. @5150~7125MHz
				0.40 dB max. @2500~2690 MHz			23 dB min. @7200~7500MHz
				0.40 dB max. @5150~5925 MHz			23 dB min. @9600~10000MHz
		High Band	5170~7125	0.90 dB max. @5150~5925 MHz	22 dB min. @12000~12500MHz		
				0.75 dB max. @5925~7125 MHz	25 dB min. @617~960MHz		
					25 dB min. @1427~2600 MHz		
					20 dB min. @3300~4200 MHz		
		28 dB min. @10300~14250 MHz					
		15 dB min. @15450~21375 MHz					

SLFD21 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD21-1R400G-01T	50	Low Band	698~960	0.8	-	2	22 dB Min. @1427~2690MHz
		High Band	1427~2690	0.75			20 dB Min. @698~915MHz
SLFD21-1R400G-02T	50	Low Band	698~960	0.8	-	2	17 dB Min. @915~960MHz
		High Band	1427~2690	0.75			22 dB min. @1427~1710 MHz
							25 dB min. @2025~2690 MHz
20 dB min. @698~915 MHz							
SLFD21-1R400G-03T	50	Low Band	570~960	0.75	-	2	17 dB min. @915~960 MHz
		High Band	1427~2690	0.85			20 dB Min. @1427~2700MHz
SLFD21-1R400G-04T	50	Low Band	570~960	0.75	-	2	20 dB Min. @570~960MHz
		High Band	1427~2690	0.85			20 dB Min. @1427~2700MHz
							20 dB Min. @570~960MHz

SPECIFICATIONS SLFD21 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)					
Units	Ω	-	MHz	dB	dB	-	dB					
SLFD21-1R400G-06T	50	Low Band	617~960	0.6	15	-	20 dB min.@1554~1606 MHz					
							35 dB min.@1805~1880 MHz					
							35 dB min.@2110~2200 MHz					
							35 dB min.@2620~2690 MHz					
							35 dB min.@3400~3800 MHz					
							32 dB min.@5150~5925 MHz					
High Band	1452~2690	1.20 dB max. @1452~1496 MHz	12	22 dB min.@617~960 MHz								
					0.60 dB max. @1710~2200 MHz	2 dB min.@3400~3800 MHz						
					0.70 dB max. @2300~2690 MHz		22 dB min.@5150~5925 MHz					
SLFD21-1R400G-07T	50	Low Band	617~960	0.7	-	1.8	21 dB min.@1428~1698 MHz					
							25 dB min.@1710~2200 MHz					
							27 dB min.@2300~2690 MHz					
							27 dB min.@3400~3700 MHz					
							30 dB min.@5150~5950 MHz					
							High Band	1428~2690	1.00 dB max. @1428~1511 MHz	-	27 dB min.@617~960 MHz	
0.60 dB max. @1710~2200 MHz	35 dB min.@5150~5925 MHz											
0.70 dB max. @2300~2690 MHz		30 dB min.@5925~8000 MHz										
SLFD21-1R400G-S41T	50	Low Band	650~960	0.48	15	-	11 dB min.@1427~2750 MHz					
		High Band	1427~2750		10		11 dB min.@650~960 MHz					
SLFD21-1R400G-S42T	50	Low Band	650~960	0.48	15	-	11 dB min.@1427~2750 MHz					
		High Band	1427~2750		10		11 dB min.@650~960 MHz					
SLFD21-1R500G-33T	50	Low Band	617~1511	0.85 dB max. @698~960 MHz	10	-	10 dB min.@1710~1880 MHz					
							1.00 dB max. @960~1447 MHz	10 dB min.@1880~2170 MHz				
							1.60 dB max. @1447~1511 MHz	10 dB min.@2170~2700 MHz				
							High Band	1710~2690	1.60 dB max. @1710~1880 MHz	7 dB min.@698~960 MHz		
											1.00 dB max. @1880~2170 MHz	7 dB min.@960~1447 MHz
											1.00 dB max. @2170~2700 MHz	
SLFD21-2R200G-03T	50	Low Band	698~746 746~960	0.4 0.5	-	2	30 dB Min.@1710~2170MHz					
							30 dB Min.@2170~2400MHz					
							32 dB Min.@2400~2700MHz					
High Band	1710~2700	0.6	25 dB Min.@698~960MHz									
				30 dB Min.@1710~2170MHz								
SLFD21-2R200G-04T	50	Low Band	698~746	0.4 0.5	-	2	30 dB Min.@2170~2400MHz					
							32 dB Min.@2400~2700MHz					
							High Band	1710~2700	0.6	25 dB Min.@698~960MHz		

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS SLFD21 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)	
Units	Ω	-	MHz	dB	dB	-	dB	
SLFD21-2R690G-01T	50	Low Band	698~2170	0.4 dB @698-960MHz	-	2	10 dB Min. @2402~2482MHz	
				0.5 dB @1420-1610MHz				
				0.65 dB @1710-1920MHz				
				0.8 dB @1920-1990MHz				
				1.40 dB @1990-2170MHz				
		High Band	2496~4200	1.35 dB @2496-2515MHz			2 Max. @2496~2690 MHz	20 dB Min. @698~960MHz
				1.2 dB @2515-2675MHz			2.33 Max. @3300~4200 MHz	15 dB Min. @1710~2170MHz
				0.9 dB @2675-2690MHz				
				1.1dB @3300~4200MHz				
SLFD21-2R690G-02T	50	Low Band	698~2170	0.4 dB @698-960MHz	-	2	10 dB Min. @2402~2482MHz	
				0.5 dB @1420-1610MHz			14 dB Min. @2496~2690MHz	
				0.65 dB @1710-1920MHz			25 dB Min. @4900~5900MHz	
				0.8 dB @1920-1990MHz				
				1.40 dB @1990-2170MHz				
		1.35 dB @2496-2515MHz	2 Max. @2496~2690 MHz	20 dB Min. @698~960MHz				
		1.2 dB @2515-2675MHz						
		0.9 dB @2675-2690MHz						
		1.1dB @3300~4200MHz						
SLFD21-2R690G-03T	50	Low Band	698~2170	1.1dB @3300~4200MHz	12	-	12 dB min. @2496~2690 MHz	
				0.8 dB max. @1710~1980 MHz			12 dB min. @2690~4200MHz	
				1.0 dB max. @1980~2170 MHz			20 dB min. @4200~5850MHz	
				1.0 dB max. @2496~2690 MHz			15 dB min. @698~1710MHz	
				0.6 dB max. @2690~4200 MHz				
		0.6 dB max. @4200~5850 MHz						
		High Band	2496~5850	1.0 dB max. @2496~2690 MHz			2.0 max. @2496~2690 MHz	20 dB min. @698~960MHz
				0.6 dB max. @2690~4200 MHz				
				0.6 dB max. @4200~5850 MHz				
SLFD21-2R690G-04T	50	Low Band	698~2170	0.4 dB @698-960 MHz	-	2	10 dB min. @2402~2482MHz	
				0.5 dB @1420-1610 MHz			14 dB min. @2496~2690MHz	
				0.65 dB @1710-1920 MHz			25 dB min. @4900~5900MHz	
				0.8 dB @1920-1990 MHz				
				1.40 dB @1990-2170 MHz				
		1.35 dB @2496-2515 MHz	2.0 max. @2496~2690 MHz	20 dB min. @698~960MHz				
		1.2 dB @2515-2675 MHz						
		0.9 dB @2675-2690 MHz						
		1.1 dB @3300~4200 MHz						
High Band	2496~4200	1.35 dB @2496-2515 MHz	2.33 max. @3300~4200 MHz	15 dB min. @1710~2170MHz				
		1.2 dB @2515-2675 MHz						
		0.9 dB @2675-2690 MHz						
		1.1 dB @3300~4200 MHz						

SPECIFICATIONS SLFD21 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)	
Units	Ω	-	MHz	dB	dB	-	dB	
SLFD21-3R000G-31T	50	Low Band	617~2690	0.35 dB Max. @617-960MHz	-	2	20 dB Min. @3300~3400MHz	
				0.45 dB Max. @1427-1511MHz				
				0.55dB Max. @1710-2170MHz				
				0.90 dB Max. @2300~2496MHz				
				1.2dB Max. @2496~2690MHz				
		High Band	3300~5925	1.3dB Max. @3300~3400MHz			30 dB Min. @617-960MHz	
				1dB Max. @3400~3800MHz				30 dB Min. @1427-1511MHz
				0.5 dB Max. @5150~5925MHz				25dB Min. @1710-2170MHz
								22 dB Min. @2170~2690MHz
								15dB Min. @10300~11850MHz
		10dB Min. @15450~17775MHz						
SLFD21-3R000G-32T	50	Low Band	617~2690	0.35 dB max. @617~960 MHz	-	1.67	20 dB min. @3300~3400MHz	
				0.45 dB max. @1427~1511 MHz				
				0.55 dB max. @1710~2170 MHz				
				0.75 dB max. @2300~2496 MHz				
				0.90 dB max. @2496~2690 MHz				
		High Band	3300~5925	1.30 dB max. @3300~3400 MHz			30 dB min. @617~960MHz	
				1.00 dB max. @3400~3800 MHz				30 dB min. @1427~1511MHz
				0.70 dB max. @5150~5925 MHz				25 dB min. @1710~2170MHz
								22 dB min. @2170~2690MHz
								15 dB min. @10300~11850MHz
		10 dB min. @15450~17775MHz						
SLFD21-4R000G-S01T	50	Low Band	3300~3800	0.95	10	-	15 dB Min. @4400~5000MHz	
				15 dB Min. @5150~5925MHz				
		High Band	4400~5925	0.95 dB max. @4400~4900 MHz			14 dB Min. @3300~3400MHz	
				0.55 dB max. @4900~5000 MHz				
		0.55 dB max. @5150~5925 MHz	15 dB Min. @3400~3800MHz					

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS SLFD21 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD21-4R500G-31T	50	Low Band	5150~5850	0.70 dB max. @1559~3800 MHz	12	-	18 dB Min. @5150~5850MHz
				1.40 dB max. @3800~4200 MHz			20 dB Min. @3400~3800MHz
		High Band	5150~5850	1.05			7 dB Min. @3800~4200MHz
							20 dB Min. @10300~11700MHz
20 dB Min. @15450~17550MHz							
SLFD21-4R500G-S35T	50	Low Band	660~4200	0.6 dB max. @660~3800 MHz	10	-	20 dB Min. @5150~7125MHz
				0.9 dB max. @3800~4200 MHz			20 dB Min. @5150~7125MHz
		High Band	660~4200	1.0 dB max. @5150~5925 MHz			20 dB Min. @3300~4200MHz
				0.8 dB max. @5950~7125 MHz			20 dB Min. @ 10300~14250MHz
SLFD21-5R950G-01T	50	Low Band	2400~2500	0.45	15	-	23dB Min. @4800~5000MHz
							20dB Min. @7200~7500MHz
		High Band	4900~5950	0.5			25dB Min. @2400~2500MHz
							20dB Min. @10300~11700MHz
SLFD21-5R950G-12T	50	Low Band	2400~2500	0.45	15	-	23dB min. @4800~5000MHz
							23dB min. @4800~5000MHz
		High Band	5100~5850	0.5			25dB min. @2400~2500MHz
							20dB min. @10300~11700MHz
SLFD21-5R950G-S51T	50	Low Band	2400~2500	1.5	10	-	27 dB min. @4800~5000MHz
							23 dB min. @5000~5950MHz
							20 dB min. @7200~7500MHz
		High Band	4900~5950	1.3			21 dB min. @4800~5000MHz
							20 dB min. @5000~5950MHz
							20 dB min. @7200~7500MHz
20 dB min. @2400~2500MHz							
6 dB min. @8100~8800MHz							
12 dB min. @8820~9800MHz							
23 dB min. @9800~11900MHz							

SPECIFICATIONS SLFD22 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD22-1R300G-31T	50	Low Band	1166~1250	0.8	12	17.0 dB min. @1166~1250 MHz	17.0 dB min. @1525~1559MHz
		High Band	1525~1606	0.90 dB max. @1525~1559MHz 0.85 dB max. @1559~1606MHz		17.0 dB min. @1166~1250 MHz	17.0 dB min. @1559~1606MHz
SLFD22-1R300G-32T	50	Low Band	1166~1250	0.8	12	17.0 dB min. @1166~1250 MHz	17.0 dB min. @1525~1559MHz
		High Band	1525~1606	0.90 dB max. @1525~1559MHz 0.85 dB max. @1559~1606MHz		17.0 dB min. @1166~1250 MHz	17.0 dB min. @1559~1606MHz
SLFD22-1R500G-31T	50	Low Band	698~1511	0.80 dB Max. @698~960MHz	--	15 dB Min. @698~960MHz	14 dB Min. @1710~1785MHz
				1.50 dB Max. @1447~1463MHz			15 dB Min. @1805~1880MHz
		High Band	1710~3800	1.50 dB Max. @1452~1496MHz		15 dB Min. @1880~2025MHz	
				1.80 dB Max. @1496~1511MHz		15 dB Min. @1452~1511MHz	
				1.50 dB Max. @1710~1785MHz		15 dB Min. @1710~1785MHz	
				1.20 dB Max. @1805~1880MHz		15 dB Min. @2300~2400MHz	
				10 dB Max. @1880~2025MHz		15 dB Min. @1805~1880MHz	
				0.75 dB Max. @2110~2200MHz		20 dB Min. @2496~2690MHz	
				0.75 dB Max. @2300~2400MHz		20 dB Min. @3400~3800MHz	
				0.75 dB Max. @2496~2690MHz		20 dB Min. @3400~3800MHz	
1.30 dB Max. @3400~3800MHz	15 dB Min. @1880~2025MHz						
SLFD22-2R300G-01T	50	Low Band	450~2200	0.45 dB max. @450~1710MHz	10	15 dB min. @450~960MHz	6 dB min. @2300~2350MHz
				0.80 dB max. @1710~1990MHz		15 dB min. @960~1427MHz	10 dB min. @2350~2500MHz
				0.90 dB max. @1990~2025MHz		15 dB min. @1427~1710MHz	10 dB min. @2500~2690MHz
				1.40 dB max. @2025~2110MHz		10 dB min. @1710~1990MHz	18 dB min. @3300~4200MHz
				2.30 dB max. @2110~2170MHz		10 dB min. @1990~2110MHz	18 dB min. @4400~5000MHz
		High Band	2300~2690	2.60 dB max. @2170~2200MHz		6 dB min. @2110~2200MHz	18 dB min. @5150~5925MHz
				2.50 dB max. @2300~2350MHz		6 dB min. @2300~2350MHz	15 dB min. @450~1710MHz
				1.50 dB max. @2350~2400MHz		10 dB min. @2350~2500MHz	10 dB min. @1710~1990MHz
				1.00 dB max. @2400~2500MHz		10 dB min. @2500~2690MHz	10 dB min. @1990~2110MHz
				0.85 dB max. @2500~2690MHz		10 dB min. @2500~2690MHz	6 dB min. @2110~2200MHz



SPECIFICATIONS SLFD22 TYPE

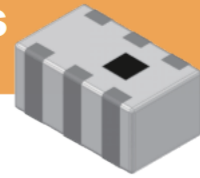
Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD22-2R300G-02T	50	Low Band	450~2200	0.45 dB max. @450~1427MHz	10	15 dB min. @450~960 MHz	10 dB min. @2300~2690MHz
				0.50 dB max. @1427~1710MHz			18 dB min. @3300~4200MHz
				0.70 dB max. @1710~2025MHz			18 dB min. @4400~5000MHz
				1.40 dB max. @2025~2110MHz			
				1.90 dB max. @2110~2170MHz			
				2.80 dB max. @2170~2200MHz			
		High Band	2300~2690	1.90 dB max. @2300~2350MHz			18 dB min. @5150~5925MHz
				1.20 dB max. @2350~2400MHz			15 dB min. @450~1785MHz
				1.20 dB max. @2350~2400MHz			12 dB min. @1805~1880MHz
				0.85 dB max. @2500~2690MHz			10 dB min. @1850~1980MHz
SLFD22-3R000G-31T	50	Low Band	617~2690	0.40 dB Max. @617~960MHz	-	-	15 dB Min. @3300~3400MHz
				0.50 dB Max. @1427~1661MHz			20 dB Min. @3400~3800MHz
				0.60 dB Max. @1710~2200MHz			20 dB Min. @3800~4200MHz
				0.90 dB Max. @2300~2690MHz			20 dB Min. @4400~5000MHz
		High Band	3300~5950	1.10 dB Max. @3300~3400MHz			15 dB Min. @3300~3400MHz
				0.90 dB Max. @3400~4200MHz			20 dB Min. @3400~3800MHz
				0.80 dB Max. @4400~5000MHz			18 dB Min. @1427~1661MHz
				0.80 dB Max. @5150~5950MHz			18 dB Min. @1710~2200MHz
							17 dB Min. @2300~2690MHz
							20 dB Min. @10300~11700MHz
SLFD22-3R000G-32T	50	Low Band	617~2690	0.40 dB max. @617~960MHz	0.5	-	0.80 dB max. @5150~5950MHz
				0.50 dB max. @1427~1661MHz			20 dB Min. @3400~4200MHz
				0.60 dB max. @1710~2200MHz			20 dB Min. @4400~5000MHz
				0.90 dB max. @2300~2690MHz			20 dB Min. @5150~5950MHz
		High Band	3300~5950	1.10 dB max. @3300~3400MHz			15 dB Min. @3300~3400 MHz
				0.90 dB max. @3400~4200MHz			20 dB Min. @3400~3800 MHz
				0.80 dB max. @4400~5000MHz			20 dB Min. @3800~4200 MHz
				0.80 dB max. @5150~5950MHz			18 dB Min. @1710~2200MHz
							18 dB Min. @2300~2690MHz
							20 dB Min. @10300~11700MHz

SPECIFICATIONS SLFD22 TYPE

Part Number	Characteristic Impedance	Frequency Range	Frequency	Max. IL in BW (@25°C)	Max. RL in BW (@25°C)	Max. VSWR in BW (@25°C)	Min. Attenuation (@25°C)
Units	Ω	-	MHz	dB	dB	-	dB
SLFD22-4R500G-31T	50	Low Band	1427~4200	0.40 dB Max. @1427~1661MHz	-	-	18 dB Min. @1427~1661MHz
				0.50 dB Max. @1710~2200MHz			18 dB Min. @1710~2200MHz
				0.50 dB Max. @2300~2690MHz			20 dB Min. @6600~8400MHz
				0.80 dB Max. @3300~3800MHz			20 dB Min. @9900~12800MHz
				0.90 dB Max. @3800~4200MHz			18 dB Min. @3300~3400MHz
	50	High Band	5150~5925	1.50 dB Max. @5150~5250MHz	-	-	20 dB Min. @700~2690MHz
							33 dB Min. @2550~2690MHz
							20 dB Min. @3300~3800MHz
							18 dB Min. @3800~4200MHz
							6 dB Min. @6900~7100MHz
							15 dB Min. @7200~7800MHz
							15 dB Min. @7800~9800MHz
	15 dB Min. @9800~11700MHz						
	1.40 dB Max. @5250~5330MHz		18 dB Min. @3800~4200MHz	15 dB Min. @14700~17850MHz			
	1.40 dB Max. @5490~5730MHz		18 dB Min. @5150~5925MHz				
	1.40 dB Max. @5730~5925MHz						

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

Multilayer Chip LC Triplexer – SLFT Series



Operating temp. : -40°C ~+85°C

FEATURES

- ◆ Small and low profile enables high density mounting
- ◆ Excellent solderability
- ◆ Low insertion loss & high attenuation

APPLICATIONS

- ◆ Mobile communication equipment for GSM,LTE, 5G systems, etc.
- ◆ Bluetooth, Wi-Fi, WLAN etc.

PRODUCT IDENTIFICATION

1	2	3	4	5
SLFT	21	-2R450G	-05	T

1	Type
SLFT	LC Triplexer

2	External Dimensions (L×W) (MM)	
21 [0805]	2.0×1.2	

3	Center Frequency	
Example	Nominal Value	
2R450G	2450.0MHz	

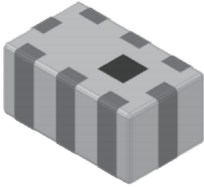
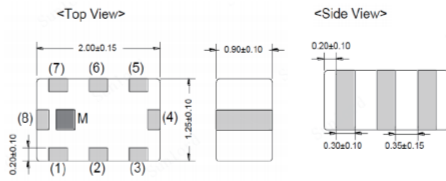
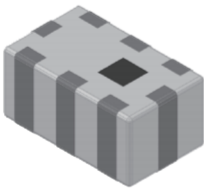
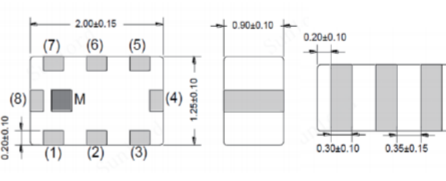

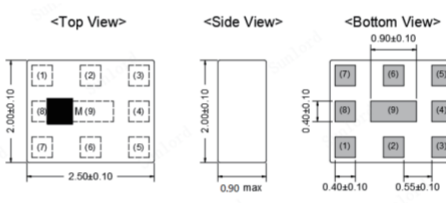
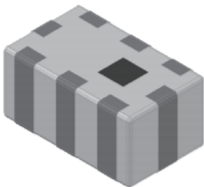
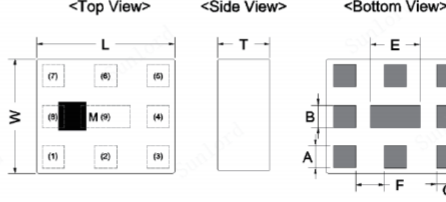
4	Series Code
	05

5	Packing
T	Tape Carrier Package

SHAPE AND DIMENSIONS

SLFT21-2R450G-05T	Dimensions and Land Patterns
	<p>(2) : Common Port (ANT) (4) : Middle Freq. Port (wifi 2.4G) (6) : High Freq. Port (wifi 5G) (8) : Low Freq. Port (gps) (1) (3) (5) (7) : GND M : MARK Unit : mm</p>
SLFT21-2R450G-06T	Dimensions and Land Patterns
	<p>(2) : Common Port (ANT) (4) : High Freq. Port (wifi 5G) (6) : Middle Freq. Port (wifi 2.4G) (8) : Low Freq. Port (gps) (1) (3) (5) (7) : GND M : MARK Unit : mm</p>

SHAPE AND DIMENSIONS

<p>SLFT21-2R450G-07T</p> 	<p>Dimensions and Land Patterns</p>  <p>(2) : Common Port (ANT) (4) : Low Freq. Port (gps) (6) : High Freq. Port (wifi 5G) (8) : Middle Freq. Port (wifi 2.4G) (1) (3) (5) (7) : GND M : MARK Unit : mm</p>
<p>SLFT21-2R450G-08T</p> 	<p>Dimensions and Land Patterns</p>  <p>(2) : Common Port (ANT) (4) : Low Freq. Port (gps) (6) : Middle Freq. Port (wifi 2.4G) (8) : High Freq. Port (wifi 5G) (1) (3) (5) (7) : GND M : MARK Unit : mm</p>
<p>SLFT22-0R960G-02T/11T/21T/31T /SLFT22-2R500G-01T</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) : Common Port (3) : Lower Freq. Port (5) : Middle Freq. Port (7) : Higher Freq. Port (2) (4) (6) (8) (9) : GND M : MARK Unit : mm</p>
<p>SLFT22-2R690G-01T</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) : Common Port (3) : High Freq. Port (5) : Middle Freq. Port (7) : Low Freq. Port (2)(4)(6)(8)(9) : GND M : MARK Unit : mm</p>

Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

Multilayer Chip LC Coupler

Multilayer Chip Antenna

Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SPECIFICATIONS SLFT21 TYPE

Part Number	Passband	Max. IL in BW	Max. V.S.W.R. in BW	Min. Attenuation (@25°C)	Min. Isolation	Characteristic Impedance
Units	MHz	dB	-	dB	dB	Ω
SLFT21-2R450G-05T	1560~1606	0.6	2.0	13/14 dB Min. @2400~2500MHz	15 dB Min.@ (LB-HB/MB-HB) / 14 dB Min.@ LB-MB	50
	2400~2500	0.8		15 dB Min. @4800~6000MHz		
				10 dB Min. @860~960MHz		
				13 dB Min. @1545~1605MHz		
				9 dB Min. @3600~3750MHz		
				18 dB Min. @4800~5000MHz		
				10 dB Min. @7200~7500MHz		
	4900~5950	0.75/0.70		5 dB Min. @9600~10000MHz		
				24 dB Min. @860~960MHz		
				24 dB Min. @1545~1605MHz		
				25 dB Min. @1710~1990MHz		
				30 dB Min. @2170MHz		
18 dB Min. @9800~11800MHz						
SLFT21-2R450G-06T	1560~1606	0.6/0.65	2.0	13 dB Min. @2400~2500MHz	15 dB Min.@ (LB-HB/MB-HB) / 14 dB Min.@ LB-MB	50
	2400~2500	0.8		15 dB Min. @4800~6000MHz		
				10 dB Min. @860~960MHz		
				13 dB Min. @1545~1605MHz		
				9 dB Min. @3600~3750MHz		
				18 dB Min. @4800~5000MHz		
				10 dB Min. @7200~7500MHz		
	4900~5950	0.75/0.90		5 dB Min. @9600~10000MHz		
				24 dB Min. @860~960MHz		
				24 dB Min. @1545~1605MHz		
				25 dB Min. @1710~1990MHz		
				30 dB Min. @2170MHz		
18 dB Min. @9800~11800MHz						
SLFT21-2R450G-08T	1560~1606	0.6	1.8	15 dB Min. @2400~2500MHz	15 dB Min.@ (LB-HB/MB-HB) / 15 dB Min.@ LB-MB	50
	2400~2500	0.8		18 dB Min. @4900~5950MHz		
				15 dB Min. @1560~1606MHz		
	4900~5950	0.8		18 dB Min. @4900~5950MHz		
				20 dB Min. @1560~1606MHz		
				25 dB Min. @2400~2500MHz		

SPECIFICATIONS SLFT21 TYPE

Part Number	Passband	Max. IL in BW	Max. V.S.W.R. in BW	Min. Attenuation (@25°C)	Min. Isolation	Characteristic Impedance
Units	MHz	dB	-	dB	dB	Ω
SLFT21-2R450G-07T	1560~1606	0.6	2.0	13 dB Min. @2400~2500MHz	15 dB Min. @ (LB-HB/MB-HB) / 14 dB Min. @ LB-MB	50
				15 dB Min. @4800~6000MHz		
	2400~2500	0.8		10 dB Min. @860~960MHz		
				13 dB Min. @1545~1605MHz		
				9 dB Min. @3600~3750MHz		
				18 dB Min. @4800~5000MHz		
				10 dB Min. @7200~7500MHz		
				5 dB Min. @9600~10000MHz		
	4900~5950	0.75		24 dB Min. @860~960MHz		
				24 dB Min. @1545~1605MHz		
				25 dB Min. @1710~1990MHz		
				30 dB Min. @2170MHz		
				18 dB Min. @9800~11800MHz		

SLFT22 TYPE

Part Number	Passband	Max. IL in BW	Max. V.S.W.R. in BW	Min. Attenuation (@25°C)	Min. Isolation	Characteristic Impedance
Units	MHz	dB	-	dB	dB	Ω
SLFT22-0R960G-02T	450~960	0.45	2.0	15 dB Min. @1710~2690MHz	13 dB Min. @ (HB-LB) / 15 dB Min. @ (MB-HB/MB-LB)	50
				20 dB Min. @3400~3800MHz		
				20/13 dB Min. @5150~5850MHz		
	1710~2690	0.75		15 dB Min. @450~960MHz		
				13 dB Min. @3400~3800MHz		
	3400~5850	0.75		13 dB Min. @5150~5850MHz		
				17 dB Min. @450~960MHz		
				15 dB Min. @1710~2690MHz		

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS SLFT22 TYPE

Part Number	Passband	Max. IL in BW	Max. V.S.W.R. in BW	Min. Attenuation (@25°C)	Min. Isolation	Characteristic Impedance
Units	MHz	dB	-	dB	dB	Ω
SLFT22-0R960G-11T	698~960	0.70	2.0	12 dB Min. @1452~1496MHz	25 dB Min. @698~960 MHz(LB-MB)	50
				15 dB Min. @1565~1606MHz		
				20 dB Min. @1710~2170 MHz	10 dB Min. @1452~1496 MHz(LB-MB)	
				20 dB Min. @2496~2690MHz		
				20 dB Min. @3400~3800MHz	18 dB Min. @1710~2170 MHz(LB-MB)	
				20 dB Min. @4900~5850MHz		
	1452~2170 MHz	2.30 dB Max. @1452~1496 MHz		23 dB Min. @698~960MHz	20 dB Min. @698~960 MH(LB-HB)	
		1.50 dB Max. @1710~2170 MHz		18 dB Min. @2496~2690MHz		
	2496~5850 MHz	1.84 dB Max. @2496~2690 MHz		20 dB Min. @3400~3800MHz	25 dB Min. @2496~2690 MHz(LB-HB)	
		1.20 dB Max. @3400~3800 MHz		20 dB Min. @4900~5850MHz		
		0.50 dB max. @4900~5850 MHz		23 dB Min. @698~960MHz	18 dB Min. @2496~2690 MHz(MB-HB)	
					30 dB Min. @1452~1496 MHz(MB-HB)	
			20 dB Min. @1710~2170MHz	18 dB min. @1710~2170 MHz(MB-HB)		
SLFT22-0R960G-21T	617~960	0.50 dB Max. @617~698 MHz	2.0	12 dB Min. @1427~2690MHz	15 dB Min. @617~960 MHz(LB-MB)	50
				20 dB Min. @3300~3400MHz		
		0.65 dB Max. @698~960 MHz		18 dB Min. @3400~3800MHz	12 dB Min. @1427~2690 MHz(LB-MB)	
				7 dB Min. @5150~5925MHz		
	1427~2690MHz	0.90		16 dB Min. @617~960MHz	18 dB Min. @3300~3800 MHz(HB-LB)	
				9 dB Min. @3300~3400MHz		
				15 dB Min. @3400~3800MHz	7 dB Min. @5150~5925 MHz(HB-LB)	
				10 dB Min. @5150~5925MHz		
	3300~5925MHz	1.35 dB Max. @3300~3400 MHz		16 dB Min. @617~960MHz	15 dB Min. @1427~2690 MHz(MB-HB)	
		0.90 dB Max. @3400~3800 MHz				
		0.75 dB Max. @5150~5925 MHz		15 dB Min. @1427~2690MHz	12 dB Min. @5150~5925 MHz(MB-HB)	

SPECIFICATIONS SLFT22 TYPE

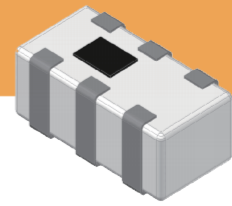
Part Number	Passband	Max. IL in BW	Max. V.S.W.R. in BW	Min. Attenuation (@25°C)	Min. Isolation	Characteristic Impedance	
Units	MHz	dB	-	dB	dB	Ω	
SLFT22-0R960G-31T	698~960	0.70	2.0	7 dB Min. @1427~1511MHz	14 dB Min. @698~960MHz (LB-MB)	50	
				12 dB Min. @1710~2170MHz	7 dB Min. @1427~1511 MHz (LB-MB)		
				27 dB Min. @2500~2690MHz	13 dB Min. @1710~2170MHz (LB-MB)		
	35 dB Min. @3400~3600MHz	15 dB Min. @698~960MHz (HB-LB)					
	1427~2170	1.20 dB max. @1427~1511 MHz		14 dB Min. @698~960MHz	30 dB Min. @2500~2690MHz (HB-LB)		
				10 dB Min. @2500~2690MHz	30 dB Min. @3400~3600MHz (HB-LB)		
	2496~5000	1.20 dB Max. @1710~2170 MHz		15 dB Min. @3400~3600MHz	15 dB Min. @1427~1511MHz (MB-HB)		
				18 dB Min. @698~960MHz	15 dB Min. @1710~2170MHz (MB-HB)		
		0.60 dB Max. @3300~5000 MHz		16 dB Min. @1427~1511MHz	13 dB Min. @2500~2690MHz (MB-HB)		
				15 dB Min. @1710~2170MHz	15 dB Min. @3400~3600MHz (MB-HB)		
20 dB Min. @3400~3600MHz			13 dB min. @(LB-MB)				
SLFT22-2R500G-01T	1447~2500	0.70 dB Max. @1447~1511 MHz	2.0	25 dB Min. @3600~3800MHz	15 dB min. @(LB-HB)	50	
				0.80 dB Max. @2400~2500 MHz			20 dB Min. @5150~5850MHz
	3400~3800	1.00 dB Max. @3400~3600 MHz		14 dB Min. @1447~1511MHz	10 dB Min. @5150~5850MHz		
				13 dB Min. @2400~2500MHz			
	5150~5850	1.50		1.00 dB Max. @3600~3800 MHz	20 dB Min. @1447~1511MHz		10 dB min. @(MB-HB)
				20 dB Min. @1447~1511MHz	17 dB Min. @2400~2500MHz		
					17 dB Min. @3400~3600MHz		
					17 dB Min. @3600~3800MHz		
					17 dB Min. @3600~3800MHz		

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS SLFT22 TYPE

Part Number	Passband	Max. IL in BW	Min. Attenuation (@25°C)	Min. Isolation	Characteristic Impedance	
Units	MHz	dB	dB	dB	Ω	
SLFT22-2R690G-01T	617~2690	0.50 dB Max. @617~960 MHz	22 dB Min. @3300~4200MHz	22 dB Min. @617~960MHz(LB-MB)	50	
		0.55 dB Max. @1166~1606 MHz	27 dB Min. @4400~5000MHz	25 dB Min. @1695~1710MHz(LB-MB)		
		0.50 dB Max. @1710~1785 MHz		23 dB Min. @1710~2200MHz(LB-MB)		
		0.50 dB Max. @1805~1885 MHz	30 dB Min. @5150~5925MHz	19 dB Min. @2300~2690MHz(LB-MB)		
		0.50 dB Max. @1930~1990 MHz		22 dB Min. @3300~3800MHz(LB-MB)		
		0.70 dB Max. @2300~2496 MHz	10 dB Min. @5925~12750 MHz	30 dB Min. @5150~5925MHz(LB-MB)		
		1.20 dB Max. @2496~2690 MHz				
	3300~3800	1.20 dB Max. @3300~3400 MHz	22 dB Min. @617~1427MHz	(LB-HB) 25 dB Min. @617~960MHz 25 dB Min. @1427~1606MHz 25 dB Min. @1695~1710MHz 29 dB Min. @1710~2690MHz 22 dB Min. @3300~3800MHz 27.5 dB Min. @4400~5000MHz 30 dB Min. @5150~5925MHz		
		1.10 dB Max. @3400~3600 MHz	23 dB Min. @1427~2500MHz			
		1.35 dB Max. @3600~3800 MHz	19 dB Min. @2500~2690MHz			
	10 dB Min. @4400~5000MHz					
	4400~5000	1.40 dB Max. @4400~4800 MHz	25 dB Min. @617~2690MHz			
			5 dB Min. @2170~3150MHz			
		1.00 dB Max. @4800~5000 MHz	14 dB Min. @3300~3600MHz			19 dB Min. @617~960MHz(MB-HB)
			13 dB Min. @3600~3800MHz			25 dB Min. @1427~1606MHz(MB-HB)
			1 dB Min. @3800~4200MHz			7.5 dB Min. @1710~2690MHz(MB-HB)
			15 dB Min. @8800~10000MHz			14 dB Min. @3300~3800MHz(MB-HB)
			7 dB Min. @13200~15000MHz	11 dB Min. @4400~5000MHz(MB-HB)		

Multilayer Chip LC Coupler – SLCP Series



Operating temp. : -40°C ~+85°C

- FEATURES**
- ◆ Small and low profile enables high density mounting
 - ◆ Excellent solderability
 - ◆ Low insertion loss and high coupling

- APPLICATIONS**
- ◆ Mobile communication system, such as CA, LTE, 5G
 - ◆ Base station application

PRODUCT IDENTIFICATION

1	2	3	4	5
SLCP	18	-2R700G	-02	T

1	2	3
Type	External Dimensions (L×W) (MM)	Center Frequency
SLCP	LC Coupler	
	06 [0202]	0.6×0.5
	18 [0603]	1.6×0.8
	21 [0805]	2.0×1.2
	31 [1206]	3.2×1.6
		Example
		Nominal Value
		2R700G
		2700MHz

4	5
Series Code	Packing
02	T
	Tape Carrier Package

SHAPE AND DIMENSIONS

Type: SLCP06 Series	<p style="text-align: center;">Dimensions and Land Patterns</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><Top View></p> </div> <div style="text-align: center;"> <p><Side View></p> </div> <div style="text-align: center;"> <p><Bottom View></p> </div> </div> <p>(1) : Coupling Port (2) : 50 ohm Terminate Port (3) : Output Port (4) : Input Port M : MARK Unit : mm</p>																
Type: SLCP18 Series	<p style="text-align: center;">Dimensions and Land Patterns</p> <div style="display: flex; align-items: center;"> <table border="1" style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>Terminal Name</th> <th>Number</th> <th>Terminal Name</th> </tr> </thead> <tbody> <tr> <td>①</td> <td>IN</td> <td>④</td> <td>Termination Port</td> </tr> <tr> <td>②</td> <td>GND</td> <td>⑤</td> <td>GND</td> </tr> <tr> <td>③</td> <td>OUT</td> <td>⑥</td> <td>Coupling</td> </tr> </tbody> </table> </div>	Number	Terminal Name	Number	Terminal Name	①	IN	④	Termination Port	②	GND	⑤	GND	③	OUT	⑥	Coupling
Number	Terminal Name	Number	Terminal Name														
①	IN	④	Termination Port														
②	GND	⑤	GND														
③	OUT	⑥	Coupling														

Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

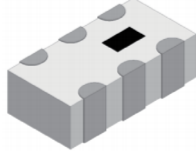
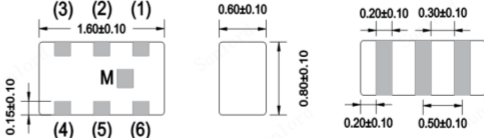
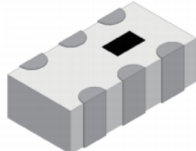
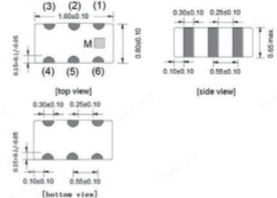
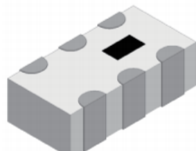
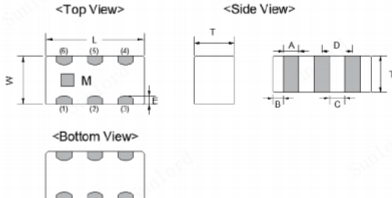
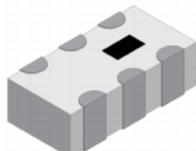
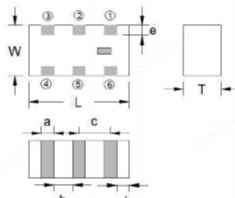
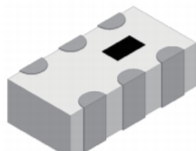
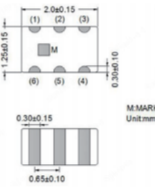
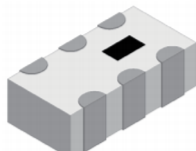
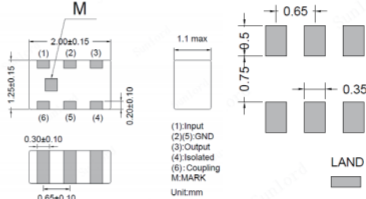
Multilayer Chip LC Coupler

Multilayer Chip Antenna

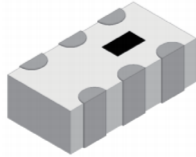

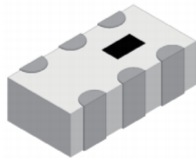
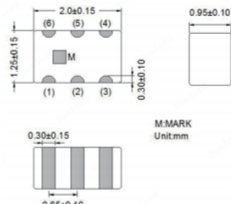
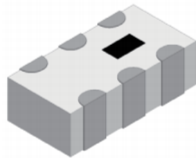
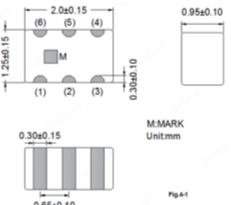
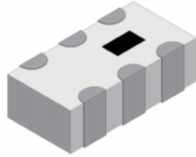
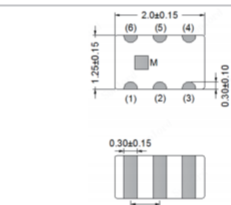
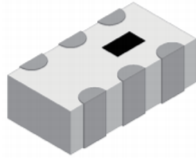
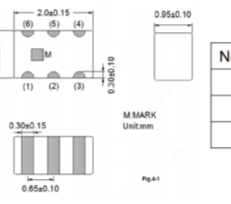
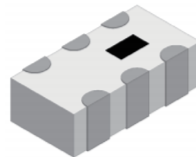
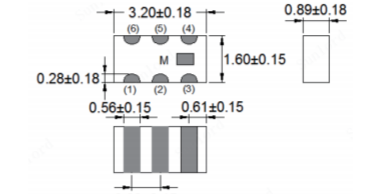
Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SHAPE AND DIMENSIONS

<p>SLCP18-2R700G-02T</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) : Input (2) (5) : GND (3) : Coupling (4) : Termination (6) : Output M : MARK Unit : mm</p>																																			
<p>SLCP18-2R700G-11T</p> 	<p>Dimensions and Land Patterns</p>  <p>(1) : Coupling (2) : GND (3) : 50ohm Termination (4) : Output (5) : GND (6) : Input M : MARK Unit : mm</p>																																			
<p>SLCP18-2R700G-15T</p> 	<p>Dimensions and Land Patterns</p>  <p><Top View> <Side View></p> <p><Bottom View></p>																																			
<p>SLCP18-5R400G-01T / SLCP18-6R000G-01T</p> 	<p>Dimensions and Land Patterns</p>  <table border="1" data-bbox="1018 1101 1396 1196"> <thead> <tr> <th>Number</th> <th>Terminal Name</th> <th>Number</th> <th>Terminal Name</th> </tr> </thead> <tbody> <tr> <td>①</td> <td>IN</td> <td>④</td> <td>Termination Port</td> </tr> <tr> <td>②</td> <td>GND</td> <td>⑤</td> <td>GND</td> </tr> <tr> <td>③</td> <td>OUT</td> <td>⑥</td> <td>Coupling</td> </tr> </tbody> </table>	Number	Terminal Name	Number	Terminal Name	①	IN	④	Termination Port	②	GND	⑤	GND	③	OUT	⑥	Coupling																			
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SHAPE AND DIMENSIONS

<p>SLCP21-0R850G-04T</p> 	<p>Dimensions and Land Patterns</p>  <table border="1" data-bbox="821 405 1348 474"> <thead> <tr> <th>Configuration</th> <th>Pin1</th> <th>Pin3</th> <th>Pin4</th> <th>Pin6</th> </tr> </thead> <tbody> <tr> <td>Case 1.</td> <td>Direct</td> <td>Coupled</td> <td>Input</td> <td>Isolated</td> </tr> <tr> <td>Case 2.</td> <td>Coupled</td> <td>Direct</td> <td>Isolated</td> <td>Input</td> </tr> </tbody> </table>	Configuration	Pin1	Pin3	Pin4	Pin6	Case 1.	Direct	Coupled	Input	Isolated	Case 2.	Coupled	Direct	Isolated	Input																				
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Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

Multilayer Chip LC Coupler

Multilayer Chip Antenna

Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SPECIFICATIONS SLCP06 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Coupling Value	Directivity
Units	MHz	MHz	dB	dB	dB
Symbol	f_0	PB	IL	-	-
SLCP06-5R950G-01T	5950	2400~2500	0.15	17~21	15 dB Min.
		4900~5950	0.45	11~15	-
SLCP06-5R950G-03T	5950	2400~2500	0.3	17~20.7	-
		4900~5950	0.6	11~14	
SLCP06-6R000G-31T	6000	5150~7125	0.15	24.5±2.5	-

SLCP18 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Coupling Value	Directivity
Units	MHz	MHz	dB	dB	dB
Symbol	f_0	PB	IL	-	-
SLCP18-2R450G-01T	2450	2400~2500	0.2	20±2	23 dB Min.
SLCP18-2R700G-02T	2700	698~960	0.23	25.5±2 dB@698~915MHz	-
		1710~2170	0.25	22.5±2 dB@1710~2025MHz	-
		2300~2690	0.28	23.5±2 dB@2300~2620MHz	-
SLCP18-2R700G-11T	2700	698~960	0.23	25±2 dB@698~915MHz	-
		1427~2025	0.25	24±3 dB@1710~2025MHz	-
		2300~2690	0.28	24±3 dB@2300~2620MHz	-
SLCP18-2R700G-15T	Band 1	698~960	0.23	25±3 dB@698~915MHz	-
	Band 2	1710~2170	0.25	23±3 dB@1710~2025MHz	
	Band 3	2300~2690	0.28	24±3 dB@2300~2620MHz	
SLCP18-5R400G-01T	5400	4900~5900	0.2	18~24	17 dB Min.
SLCP18-6R000G-01T	6000	4900~7125	0.25	20~24	20 dB Min.
SLCP18-6R000G-31T	6000	5925~7125	0.30	18~24	18 dB Min.

SLCP21 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Coupling value	Directivity
Units	MHz	MHz	dB	dB	dB
Symbol	f_0	PB	IL	-	-
SLCP21-0R850G-03T	850	700~1000	0.3	21.5±2.5	14 dB Min.
SLCP21-0R850G-04T	850	700~1000	0.6	5±0.5	19 dB Min.
SLCP21-2R000G-02T	2000	1700~2300	0.4 dB Max. @1700~2300MHz	3	-
SLCP21-2R500G-02T	2500	2300~2700	0.40 dB Max.	3	-
SLCP21-2R550G-01T	2550	2400~2700	0.3	5±0.6	-
SLCP21-3R500G-11T	3500	3200~3700	0.4	3	-
SLCP21-3R500G-02T	3500	3300~3800	0.4	3	-
SLCP21-3R500G-06T	3500	3300~3700	0.21	19.1 dB Min. 22.9 dB Max.	9.7
SLCP21-3R550G-01T	3550	3300~3800	0.3	5±0.6	-
SLCP21-3R950G-01T	3950	3800~4100	0.4	2.9~3.6	-
SLCP21-4R700G-01T	4700	4400~5000	0.3	3±0.3	-
SLCP21-4R700G-11T	4700	4400~5000	0.3	5±0.3	-
SLCP21-4R700G-12T	4700	4400~5000	0.4	2±0.6	-
SLCP21-5R200G-05T	5200	4400~6000	0.35 dB Max. @4400~4800MHz	2.7~3.3	-
			0.3 dB Max. @4800~5000MHz		
			0.35 dB Max. @5000~6000MHz		

SPECIFICATIONS SLCP21 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Coupling value	Directivity
Units	MHz	MHz	dB	dB	dB
Symbol	f_0	PB	IL	-	-
SLCP21-5R300G-01T	5300	4700~5900	0.32	18.6 dB Min. 21.0 dB Max.	5.3
SLCP21-6R000G-01T	6000	4000~8000	1.0 dB Max. @4000~5000MHz	-	-
			1.0 dB Max. @5000~6000MHz		
			1.1 dB Max. @6000~7000MHz		
			1.5 dB Max. @7000~8000MHz		

SLCP31 TYPE

Part Number	Center Frequency	Pass Band	Max. IL in PB (@ 25°C)	Coupling value	Directivity
Units	MHz	MHz	dB	dB	dB
Symbol	f_0	PB	IL	-	-
SLCP31-0R300G-31T	300	220-470	0.8	3.0-4.2	-
		270-350	0.7	3.0-3.5	
		350-450	0.8	3.0-4.2	
SLCP31-0R500G-01T	500	210~728	0.8	3	-

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

Multilayer Chip Antenna – SLDA Series



Operating temp. : -40°C ~+85°C

- FEATURES**
- ◆ Light weight, compact
 - ◆ Wide bandwidth, low cost
 - ◆ Built-in antenna with high gain

- APPLICATIONS**
- ◆ Bluetooth, Wi-Fi
 - ◆ Home RF system, etc.

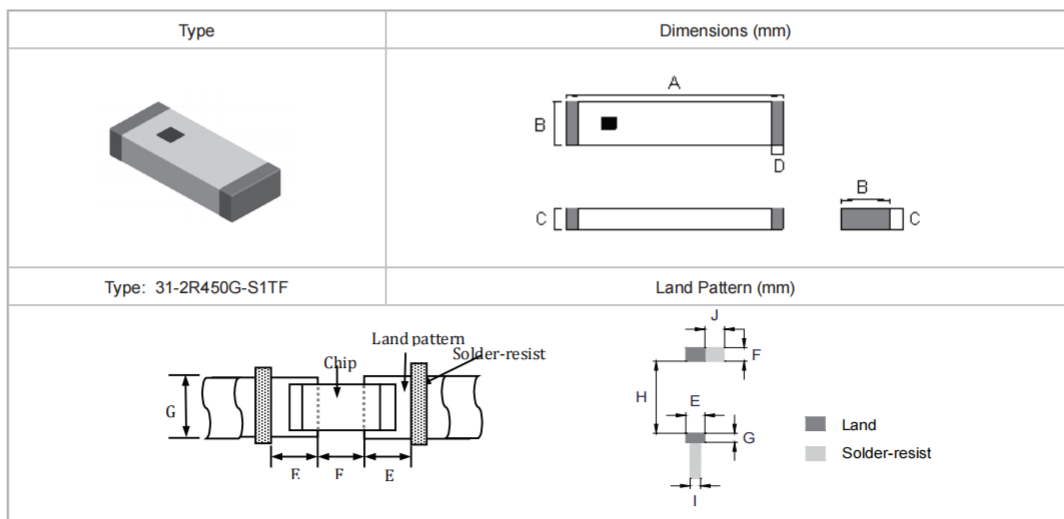
PRODUCT IDENTIFICATION

1	2	3	4	5	6
SLDA	31	-2R800G	-S1	T	F

1	2	3
Type	External Dimensions (L×W) (mm)	Center Frequency
SLDA	Multilayer Chip Antenna	Example Nominal Value
	15 1.0×0.5	2R800G 2800.0MHz
	18 1.6×0.8	2R450G 2450.0MHz
	31 3.2×1.6	
	52 5.2×2.1	
	62 6.0×2.0	
	72 7.0×2.0	
	81 8.0×1.0	
	92 9.0×2.0	
	106 10.0×6.0	
	154 15.0×4.0	

4	5	6
Series Code	Packing	Hazardous Substance Free Products
S1, 01, etc.	T Tape & Reel	F

SHAPE AND LAND PATTERN



SHAPE AND DIMENSIONS

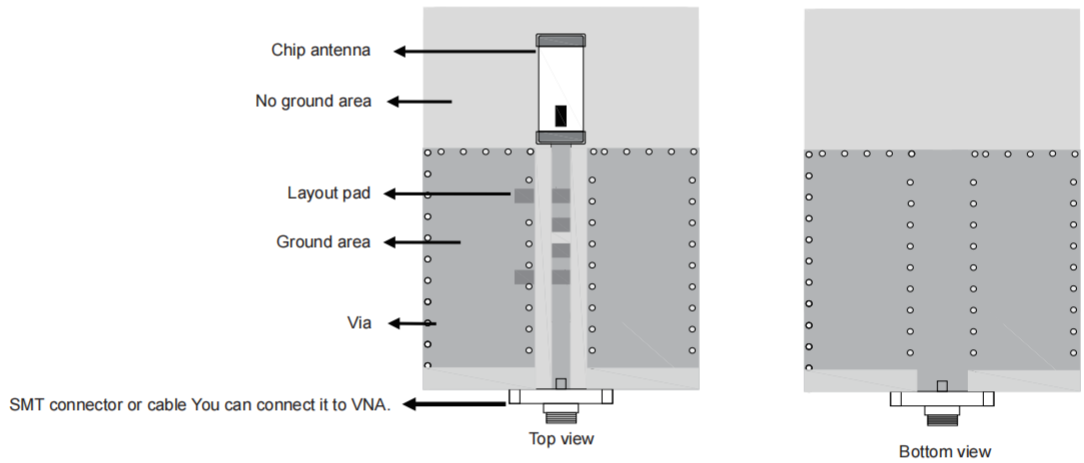
Series	A	B	C	D	E	F	G	H	I	J
SLDA15	1.00±0.1	0.5±0.1	0.4±0.05	0.25+0.1/-0.05	-	-	-	-	-	-
SLDA18	1.6±0.1	0.8±0.1	0.45±0.1	0.25±0.1	-	-	-	-	-	-
SLDA31	3.2±0.2	1.6±0.2	1.2±0.2	0.5±0.2	1.6±0.2	0.8±0.2	0.8±0.2	2.2±0.2	1.4	1.6±0.2
SLDA52	5.2±0.2	2.1±0.2	1.0±0.2	0.5±0.2	2.3±0.2	1.5±0.2	1.0±0.2	4.0±0.2	1.4	2.3±0.2
SLDA62	6.0±0.2	2.0±0.2	1.0±0.2	0.5±0.2	2.2±0.2	1.5±0.2	1.0±0.2	5.0±0.2	1.4	2.2±0.2
SLDA72	7.0±0.2	2.0±0.2	1.0±0.2	0.5±0.2	2.2±0.2	1.5±0.2	1.0±0.2	6.0±0.2	1.4	2.2±0.2
SLDA81	8.0±0.2	1.0±0.2	1.0±0.2	0.5±0.2	1.5±0.2	1.5±0.2	1.0±0.2	7.0±0.2	1.4	1.5±0.2
SLDA92	9.0±0.2	2.0±0.2	1.0±0.2	0.5±0.2	2.2±0.2	1.5±0.2	1.0±0.2	8.0±0.2	1.4	2.2±0.2
SLDA106	10.0±0.3	6.0±0.3	1.0±0.2	0.5±0.3	-	-	-	-	-	-
SLDA154	15.0±0.2	4.0±0.2	1.5±0.2	1.0±0.3	-	-	-	-	-	-

TERINAL-CONFIGURATION

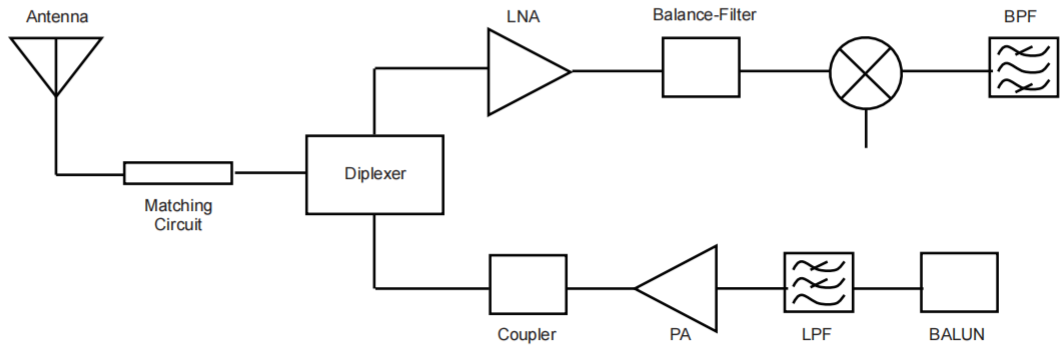


No.	Terminal Name	No.	Terminal Name
(1)	Feeding Point	(2)	NC

EVALUATION BOARD



APPLICATION GUIDE



Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

Multilayer Chip LC Coupler

Multilayer Chip Antenna

Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SPECIFICATIONS SLDA15 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA15-2R450G-36TF	2400~2500	0.85dBi Typ.	-1.5dBi Typ.	<2	50	2

SLDA18 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA18-5R500G-36TF	2400~2484	-	-	6.5 max. @2400-2484 MHz	50	3
	5150~5850			4.0 max. @5150-5850 MHz		
SLDA18-2R450G-31TF	2400~2480	0.9dBi	-2.0dBi	-	50	3

SLDA31 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA31-2R800G-S1TF	≥100	0.5dBi Typ.	-1dBi Typ.	<2	50	3
SLDA31-2R450G-S1TF	≥100	0.5dBi Typ.	-1dBi Typ.	<2	50	3
SLDA31-2R400G-S1TF	≥100	2.5dBi @(XZ-total)	-1.5dBi @(XZ-total)	<2	50	3
SLDA31-2R450G-S2TF	≥100	2.5dBi @(XZ-total)	0.5dBi @(XZ-total)	<2	50	3
SLDA31-2R450G-36TF	2400~2500	1.7dBi	-1.0dBi	<2	50	3
SLDA31-6R050G-31TF	2400~2500	2.5dBi	-2.9dBi	<2	50	3
	4900~5850	1.5dBi	-2.1dBi			
	5850~7200	2.2dBi	-1.7dBi			
SLDA31-7R000G-31TF	5500~8500	3.5dBi	-1.3dBi	<2	50	3

SLDA52 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA52-2R510G-S1TF	≥200	2.5dBi Typ.	0.5dBi Typ.	<2	50	3
SLDA52-2R540G-S1TF	≥200	2.5dBi Typ.	0.5dBi Typ.	<2	50	
SLDA52-2R450G-31TF	2400~2500	0dBi	-1.5dBi	<2	50	3

SLDA62 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA62-2R640G-01TF	≥200	2.6dBi Typ.	0.7dBi Typ.	<2	50	3

SLDA72 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA72-0R900G-31TF	858~928	-1.1dBi	-2.5dBi	<2	50	3
SLDA72-2R470G-S1TF	≥200	2.7dBi Typ.	1.0dBi Typ.	<2	50	3
SLDA72-2R450G-31TF	2400~2500	1.5dBi	-0.5dBi	<2	50	3

SPECIFICATIONS SLDA81 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA81-3R010G-S1TF	≥ 200	2.0dBi Typ.	0.5dBi Typ.	<2	50	3

SLDA92 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA92-2R660G-S1TF	≥ 200	3.0dBi Typ.	1.0dBi Typ.	<2	50	3

SLDA106 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA106-7R000G-31TF	3100~10300	2.2dBi	-3.5dBi.	<2	50	3

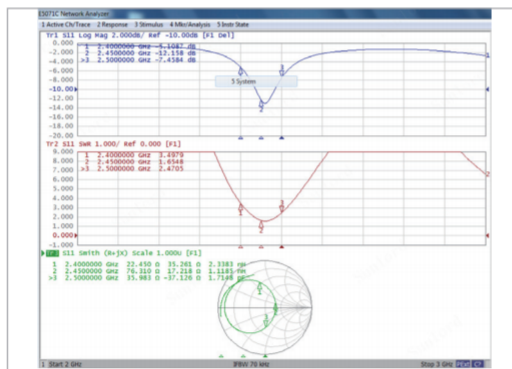
SLDA154 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA154-2R200G-31TF	700~800 MHz 1700~2100 MHz	2.0dBi.	-1.6dBi	<2	50	3
	824~960 MHz 1710~2690 MHz	2.0dBi	-1.0dBi			

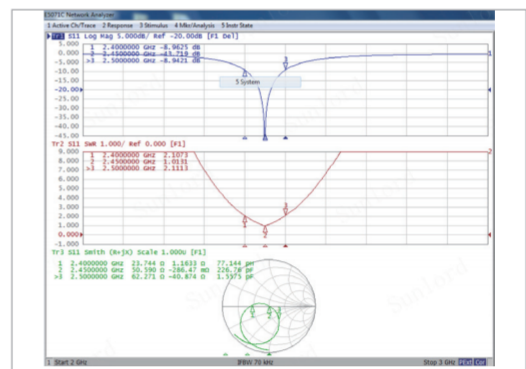
※Frequency will be changed with layout of PCB. Please contact us for appropriate design.

IMPEDANCE MATCHING

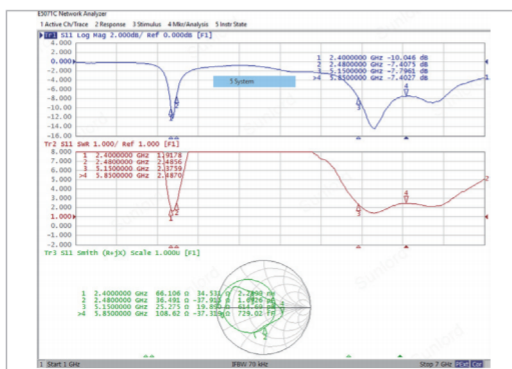
SLDA15-2R450G-36TF



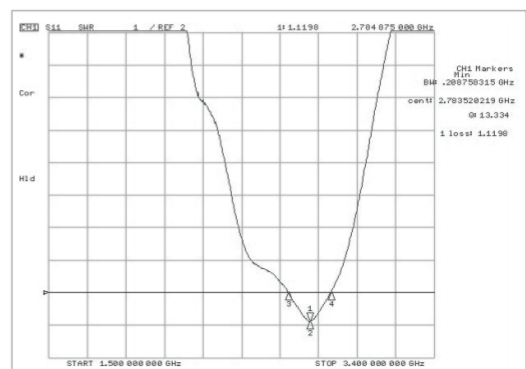
SLDA18-5R500G-36TF



SLDA18-2R450G-31TF



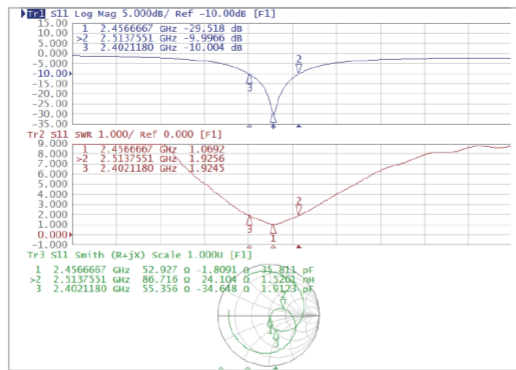
SLDA31-2R800G-S1TF



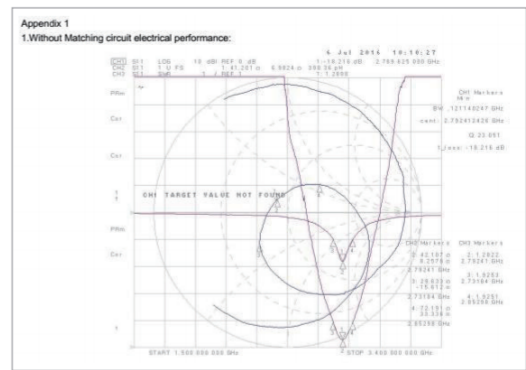
Multilayer Chip LC Filter
Multilayer Chip Balun
Multilayer Chip Diplexer
Multilayer Chip Triplexer
Multilayer Chip LC Coupler
Multilayer Chip Antenna
Wire Wound Chip Balun Transformer
Ceramic Dielectric Filter

IMPEDANCE MATCHING

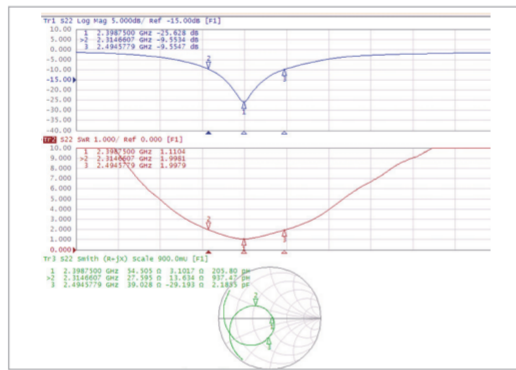
SLDA31-2R400G-S1TF



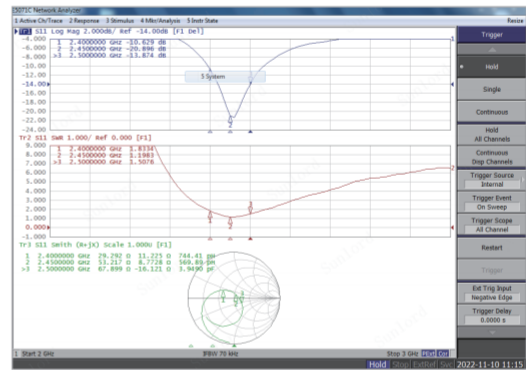
SLDA31-2R450G-S1TF



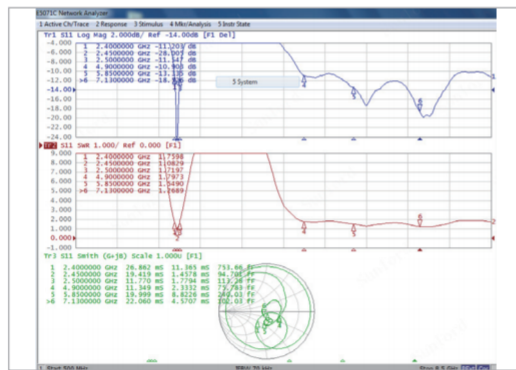
SLDA31-2R450G-S2TF



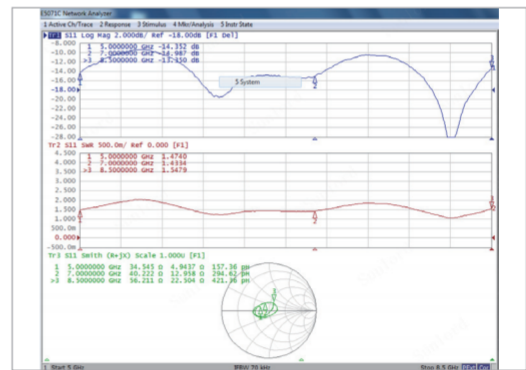
SLDA31-2R450G-36TF



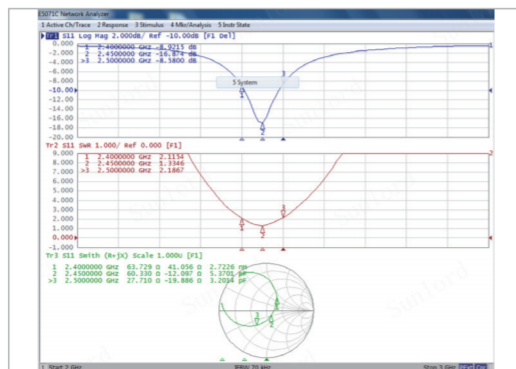
SLDA31-6R050G-31TF



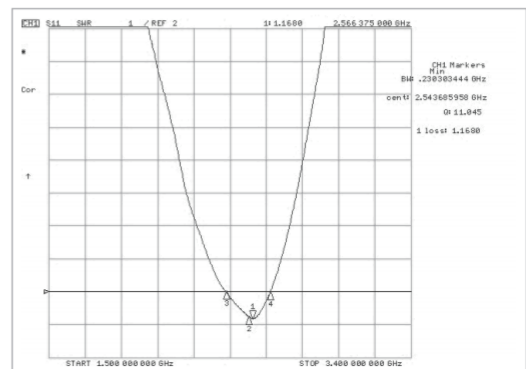
SLDA31-7R000G-31TF



SLDA52-2R450G-31TF

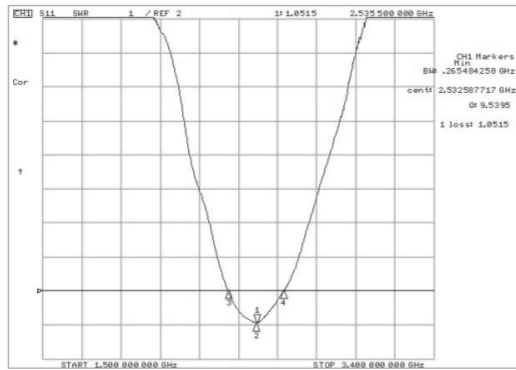


SLDA52-2R510G-S1TF

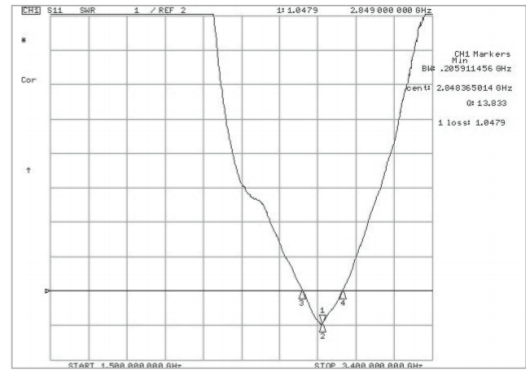


IMPEDANCE MATCHING

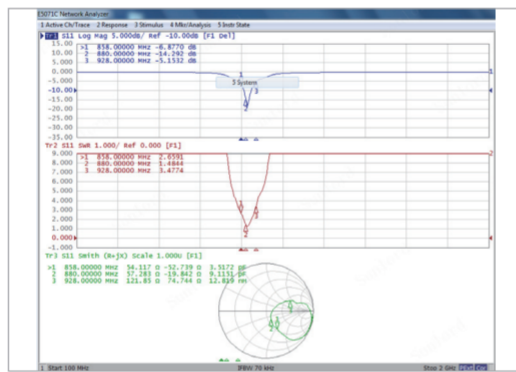
SLDA52-2R540G-S1TF



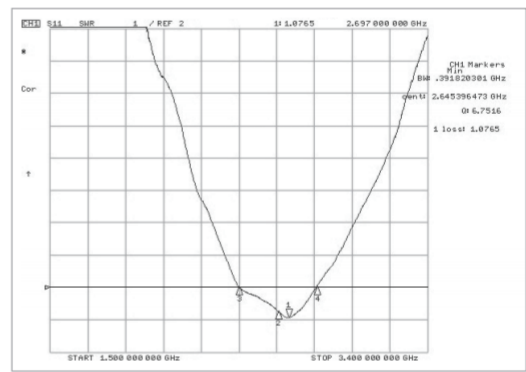
SLDA62-2R640G-01TF



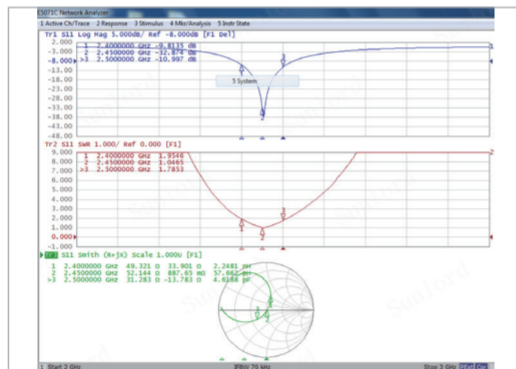
SLDA72-0R900G-31TF



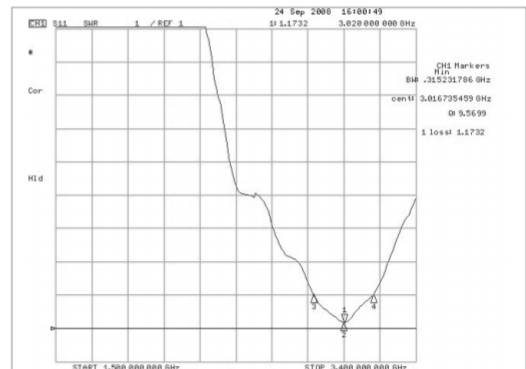
SLDA72-2R470G-S1TF



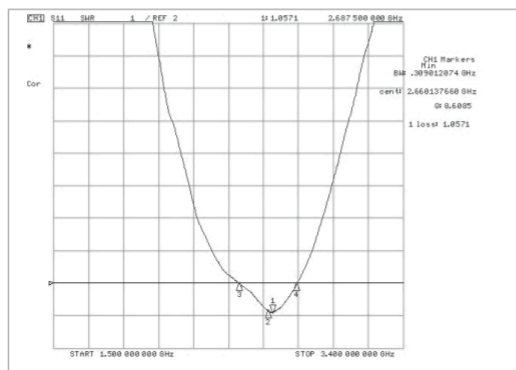
SLDA72-2R450G-31TF



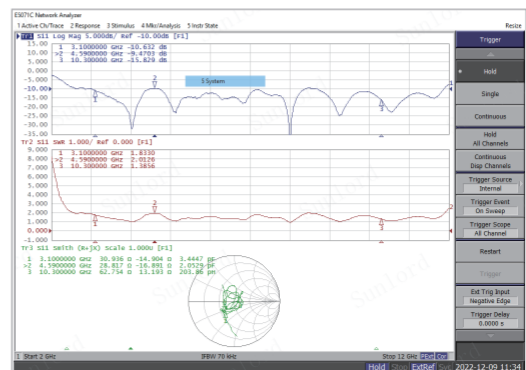
SLDA81-3R010G-S1TF



SLDA92-2R660G-S1TF



SLDA106-7R000G-31TF



Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

Multilayer Chip LC Coupler

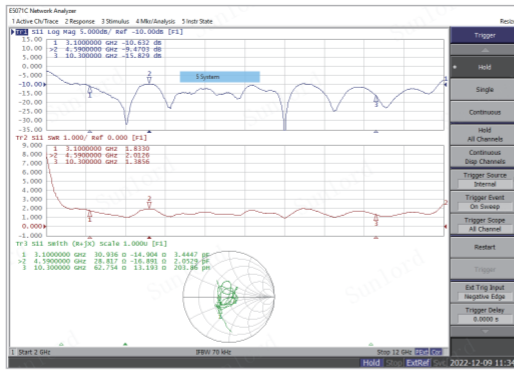
Multilayer Chip Antenna

Wire Wound Chip Balun Transformer

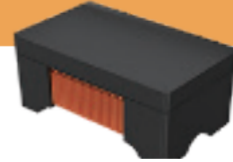
Ceramic Dielectric Filter

IMPEDANCE MATCHING

SLDA154-2R200G-31TF



Wire Wound Chip Balun Transformer – BW Series



Operating temp. : -40°C ~+ 85°C

FEATURES

- ◆ Winding structure and small size
- ◆ Surface mount type
- ◆ Low insertion loss at frequency range
- ◆ Excellent solderability

APPLICATIONS

- ◆ Balanced unbalanced transformation between antenna and cable (TV tuner)

PRODUCT IDENTIFICATION

1	2	3	4	5	6	7	8	9
B	W	21	S	75	11	A01	T	F

1 Type	
B	Chip Balun Transformer

2 Structure	
W	Winding Type

3 External Dimensions (L×W) (MM)	
21	2.0×1.2
43	4.5×3.2

4 Type of Transformer	
S	Standard
C	Internal Code

5 Port Impedance	
75	75Ω
50	50Ω

6 Impedance Ratio	
11	1:1 One to One

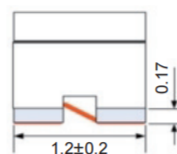
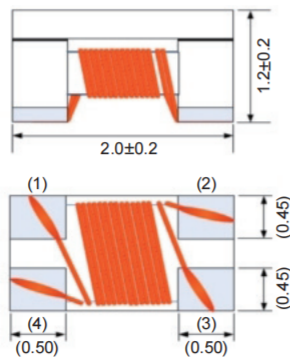
7 Characteristic Code	
	A01
	B02
	C01
	D01
	E01

8 Packing	
T	Tape Carrier Package

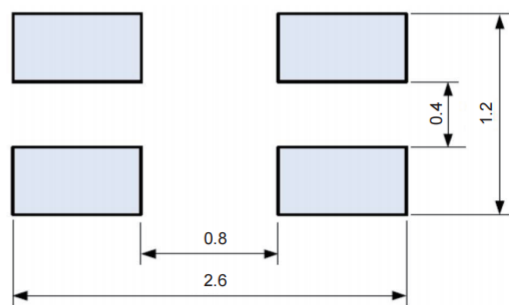
9 Hazardous Substance Free Products	
	F

SHAPE AND DIMENSIONS

BW21S Series



Land Pattern

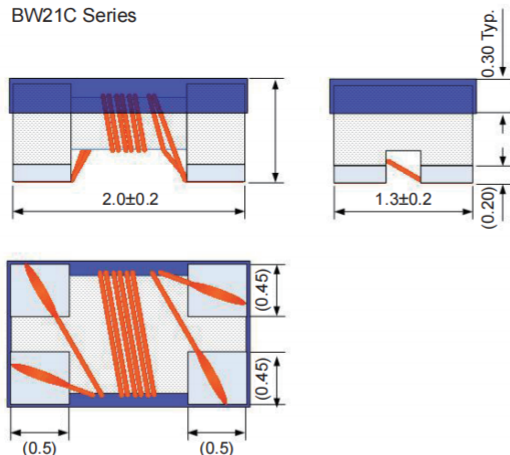


Unit: mm

Multilayer Chip LC Filter
 Multilayer Chip Balun
 Multilayer Chip Diplexer
 Multilayer Chip Triplexer
 Multilayer Chip LC Coupler
 Multilayer Chip Antenna
 Wire Wound Chip Balun Transformer
 Ceramic Dielectric Filter

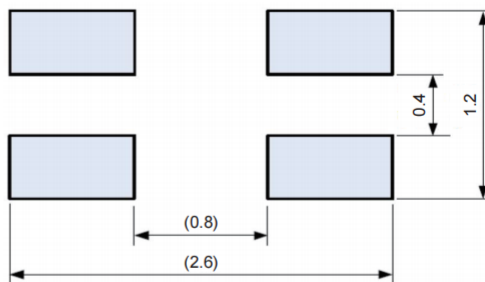
SHAPE AND DIMENSIONS

BW21C Series

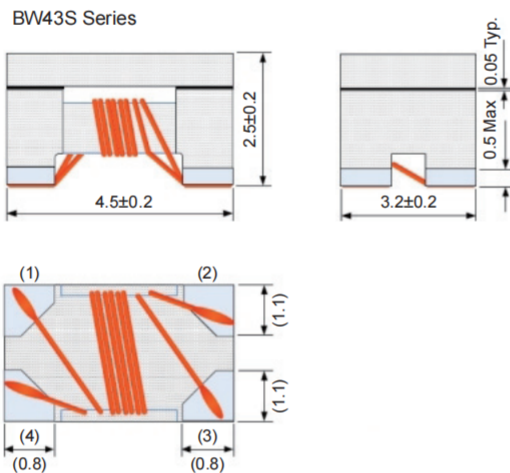


Land Pattern

Unit: mm

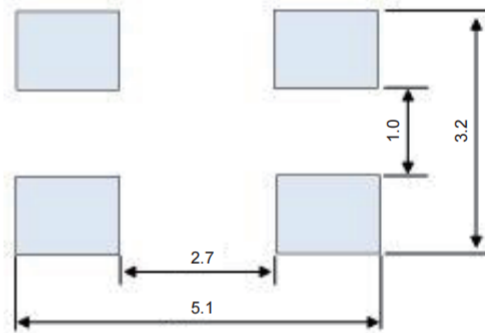


BW43S Series



Land Pattern

Unit: mm



SPECIFICATIONS

BW21S TYPE

Part Number	Freq. Range	Port Impedance	Insertion Loss at Freq. Range	CMRR at Freq. Range(Min.)	Rated Power
Units	MHz	Ω	dB	dB	dBm
BW21S7511A01TF	45~870	75/75	1.0	20	27
BW21S5011A01TF	45~870	50/50	1.2	20	27
BW21S7511B02TF	50~1200	75/75	1.2	20	27
BW21S7511C01TF	1000~1500	75/75	1.4	20	27
BW21S7511D01TF	950~2150	75/75	1.5	20	27
BW21S7511E01TF	400~1800	75/75	2.0	10	27

BW21C TYPE

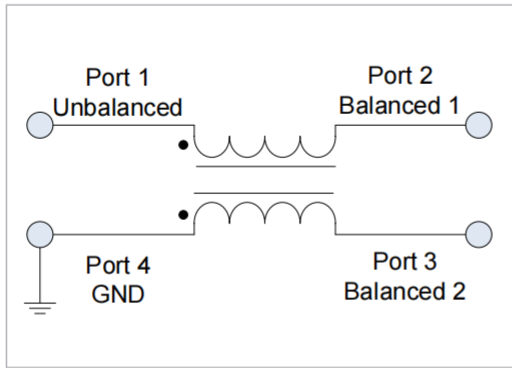
Part Number	Freq. Range	Port Impedance	Inductance	Insertion Loss	Return Loss	DC Resistance	Rated Current	CMRR	Insulation Resistance
Units	MHz	Ω	μ H	dB	dB	Ω	mA	dB	M Ω
BW21C2511A01TF	13.56	25/25	1.0 Min.	1.0 Max.	13 Typ.	0.75 Max.	220 Min.	47 Min.	10 Min.

SPECIFICATIONS BW43S TYPE

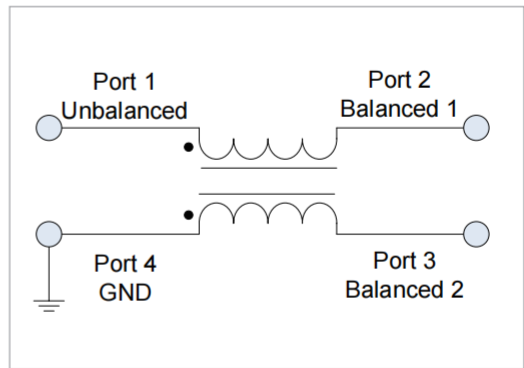
Part Number	Freq. Range	Port Impedance	Inductance @50MHz	Insertion Loss	DC Resistance	Rated Current	Rated Voltage	Insulation Resistance (M Ω)
Units	MHz	Ω	μ H	dB	Ω	mA	VDC	dB
BW43S5011C01TF	4~200	50/50	1.25 Typ.	2.52 Typ.	0.40 Max.	540 Max.	50	10 Min.
BW43S5011E01TF	48~645	50/50	1.00 Typ.	6.66 Typ.	0.15 Max.	960 Max.	50	10 Min.

※Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

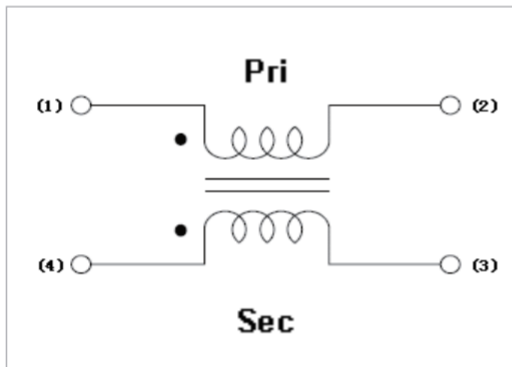
EQUIVALENT CIRCUIT



BW21S



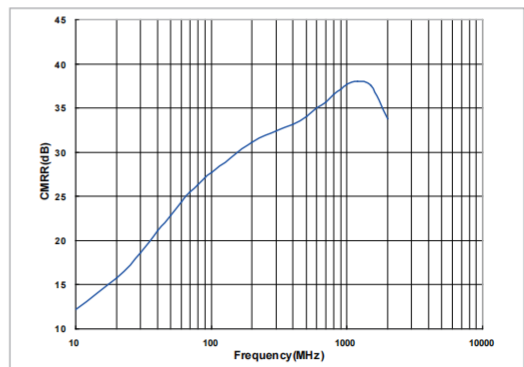
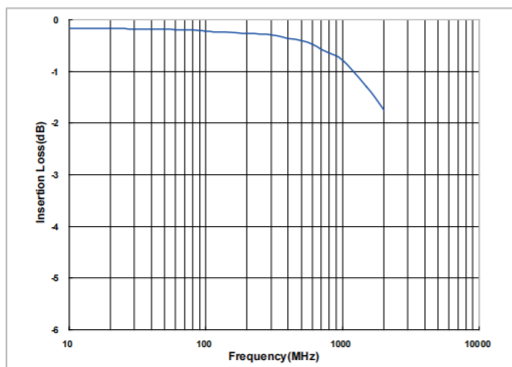
BW21C



BW43S

TYPICAL ELECTRICAL CHARACTERISTICS

BW21S7511A01TF



Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

Multilayer Chip LC Coupler

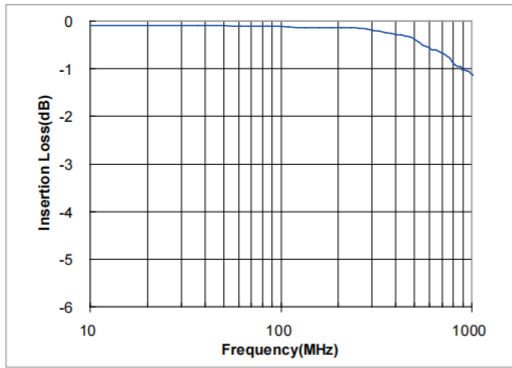
Multilayer Chip Antenna

Wire Wound Chip Balun Transformer

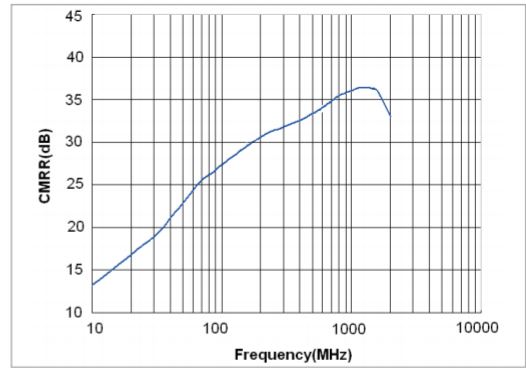
Ceramic Dielectric Filter

**TYPICAL
ELECTRICAL
CHARACTERISTICS**

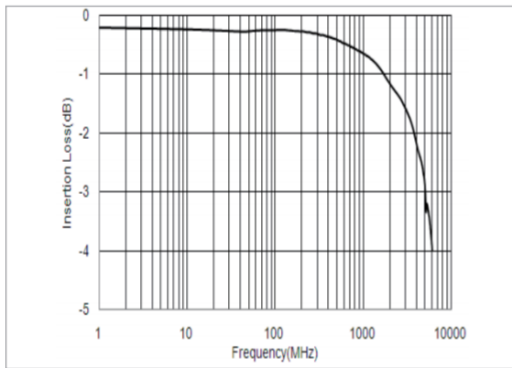
BW21S5011A01TF
Insertion Loss Characteristics



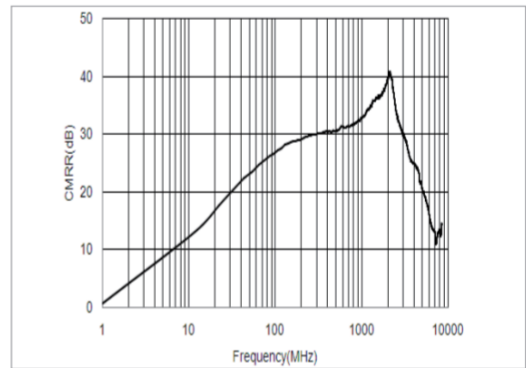
CMRR Characteristics



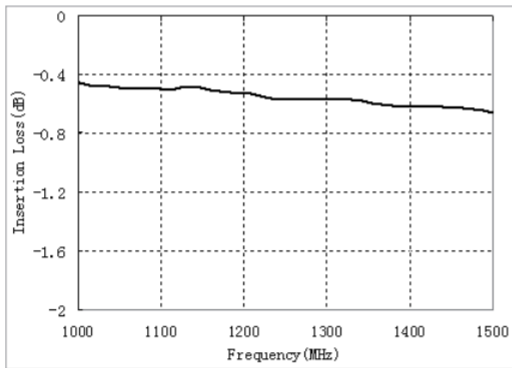
BW21S7511B02TF
Insertion Loss Characteristics



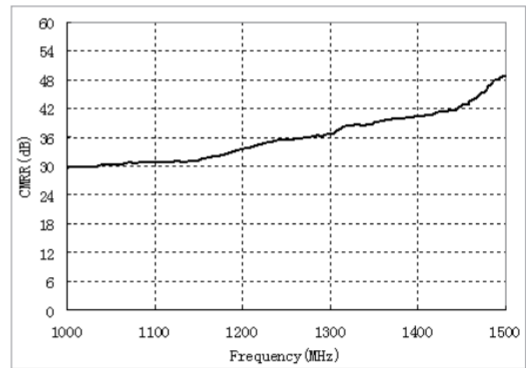
CMRR Characteristics



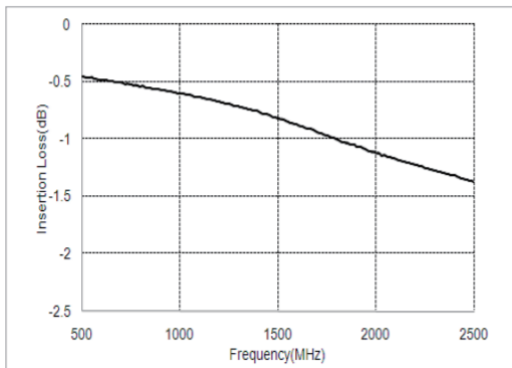
BW21S7511C01TF
Insertion Loss Characteristics



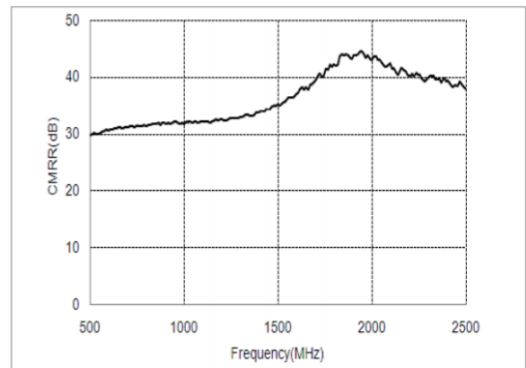
CMRR Characteristics



BW21S7511D01TF
Insertion Loss Characteristics

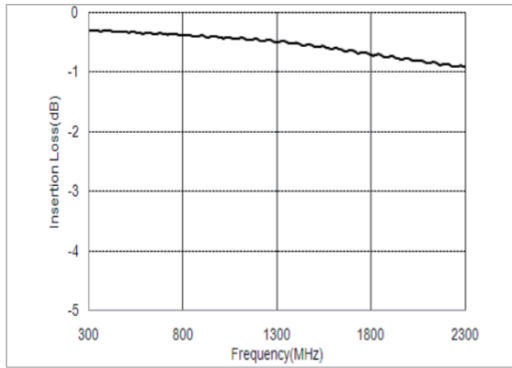


CMRR Characteristics

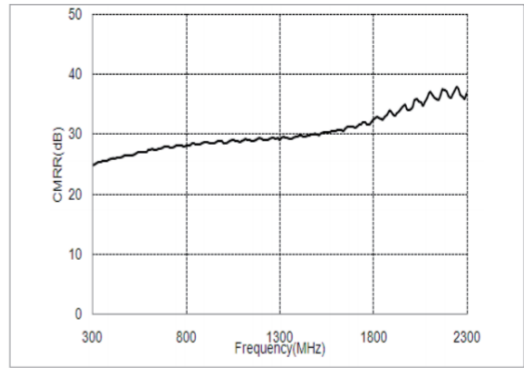


TYPICAL ELECTRICAL CHARACTERISTICS

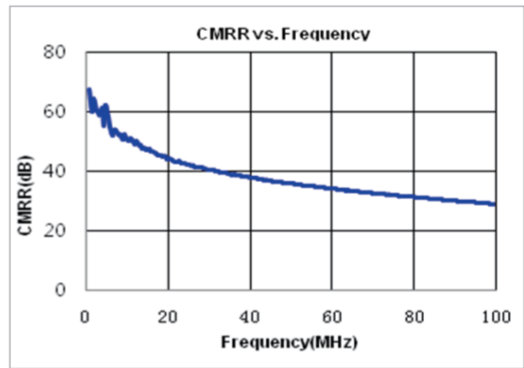
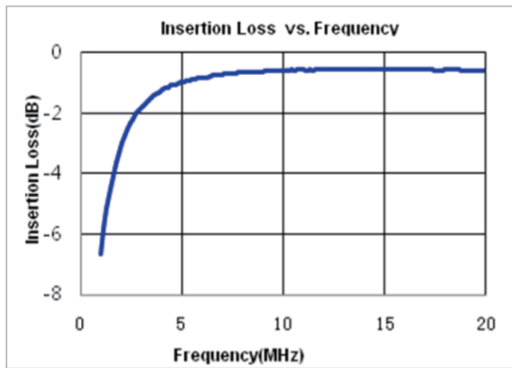
BW21S7511E01TF
Insertion Loss Characteristics



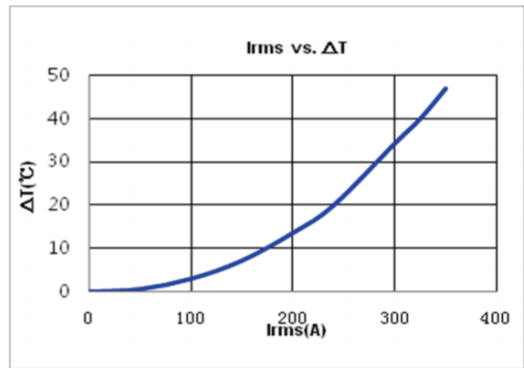
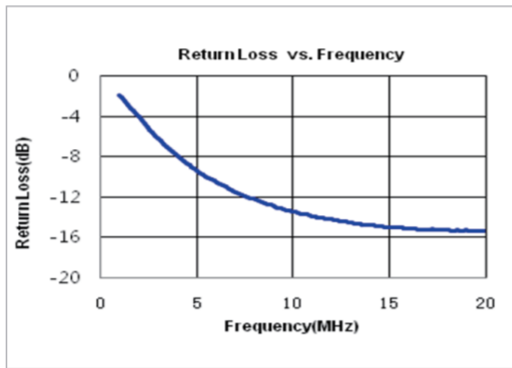
CMRR Characteristics



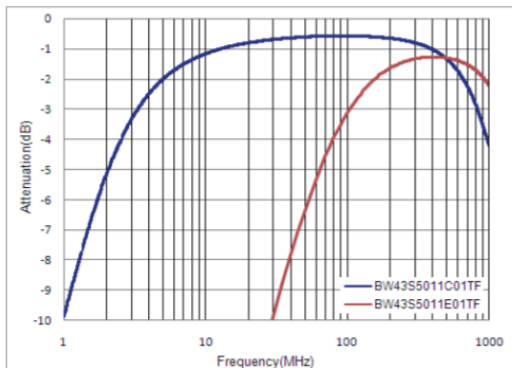
BW21C2511A01TF



BW21C2511A01TF



BW43S5011C01TF/BW43S5011E01TF



Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

Multilayer Chip LC Coupler

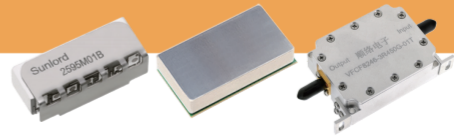
Multilayer Chip Antenna

Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

Ceramic Dielectric Filter – VFCF/D Series

Operating temp. : -40°C ~+85°C



- FEATURES**
- ◆ Low insertion loss and high attenuation
 - ◆ High processing precision and excellent product consistency
 - ◆ 700MHz~6GHz full band products can be customized

- APPLICATIONS**
- ◆ 5G macro base station, 5G micro base station, repeater, indoor distribution station

PRODUCT IDENTIFICATION

	1 VFCF	2 1707	3 -2R595G	4 -06	5 T
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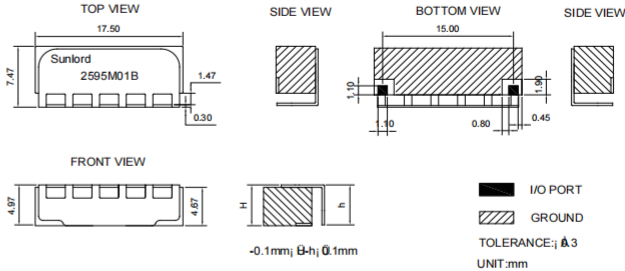
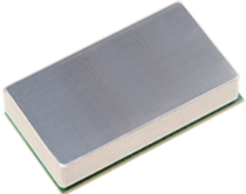
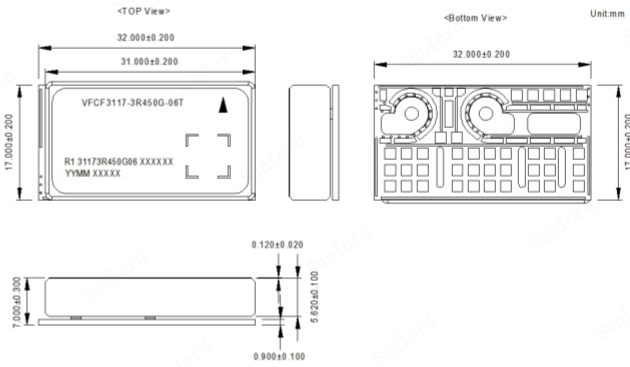

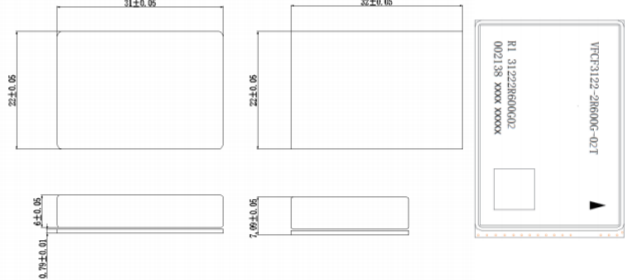

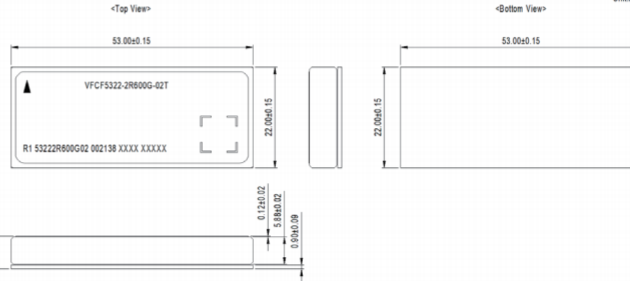
1	2	3
Type	External Dimensions (L×W) (mm)	Center Frequency
VFCF	0803	Example
Ceramic Dielectric Filter	8×3	Nominal Value
VFCD	1707	2R595G
Ceramic Waveguide Duplexer	17×7	2595MHz
	3117	3R450G
	32×17	3450MHz
	3122	
	31×22	
	5322	
	53×22	
	8246	
	82×48	
	9776	
	97×76	
	9370	
	93×70	

4	5
Series Code	Packing
01,02,03,06 etc.	T
	Reel & Tray

SHAPE AND DIMENSIONS

Type: VFCF0803 Series	Dimensions and Land Patterns
	<p style="text-align: right;">Dimensions in mm Tolerance:±0.25</p> <p style="text-align: right;"> GROUND I/O PORT </p>

SHAPE AND DIMENSIONS

<p>Type: VFCE1707 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>UNIT:mm</p>
<p>Type: VFCE3117 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>Unit:mm</p>
<p>Type: VFCE3122 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>UNIT:mm</p>
<p>Type: VFCE5322 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>Unit:mm</p>

Multilayer Chip LC Filter

Multilayer Chip Balun

Multilayer Chip Diplexer

Multilayer Chip Triplexer

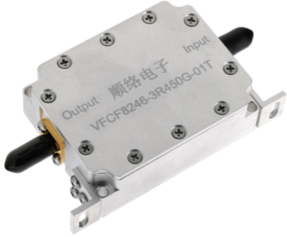
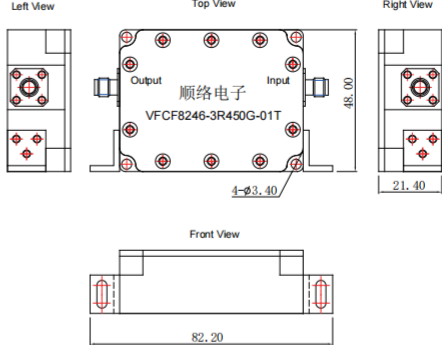
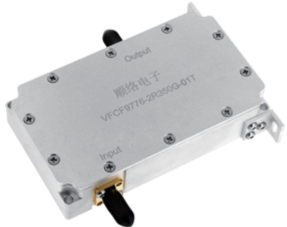
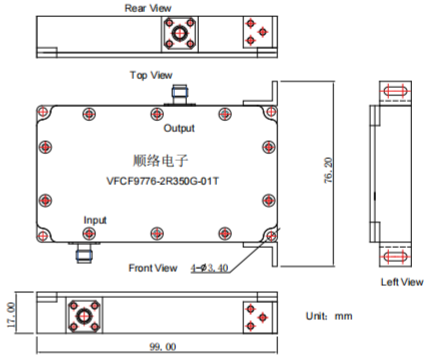

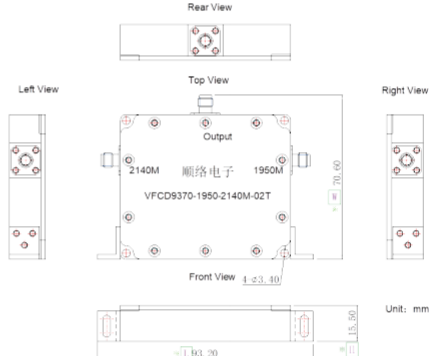
Multilayer Chip LC Coupler

Multilayer Chip Antenna

Wire Wound Chip Balun Transformer

Ceramic Dielectric Filter

SHAPE AND DIMENSIONS

<p>Type: VFCE8246 Series</p> 	<p>Dimensions and Land Patterns</p> 
<p>Type: VFCE9776 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>Unit: mm</p>
<p>Type: VFCD9370 Series</p> 	<p>Dimensions and Land Patterns</p>  <p>Unit: mm</p>

SPECIFICATIONS VFCE0803 TYPE

Part Number	Freq. Range	Average Insertion Loss In Pass Band	Return Loss	Attenuation
Units	MHz	dB	dB	dB
VFCE0803-5R235G-03T	5150~5330	2.5 Max.@25°C	10 Min.	50.0 dB min.@5490~5850MHz
VFCE0803-5R697G-03T	5490~5850	2.5 Max.@25°C	10 Min.	38.0 dB min.@30~2700MHz 16.0 dB min.@3456~3547MHz 33.0 dB min.@3667~3883MHz 50.0 dB min.@5150~5330MHz

SPECIFICATIONS VFCF1707 TYPE

Part Number	Freq. Range	Average Insertion Loss In Pass Band	Return Loss	Attenuation
Units	MHz	dB	dB	dB
VFCF1707-2R595G-06T	2515~2675	2.5 Max.@25°C	12 Min.	45.0min.@0~960MHz 40.0min.@1000~2170MHz 40.0min.@2300~2400MHz 40.0min.@2400~2483.5MHz 35.0min.@3300~3800MHz 10.0min.@4800~4960MHz
VFCF1707-3R450G-01T	3300~3600	2.0 Max.@25°C	13 Min.	40.0min.@0~960MHz 35.0min.@960~1710MHz 50.0min.@1710~2690MHz 30.0min.@2690~3000MHz 22.0min.@3000~3230MHz 15.0min.@3230~3250MHz 15.0min.@3650~3660MHz 22.0min.@3660~3700MHz 30.0min.@3700~4200MHz 35.0min.@4200~5000MHz 35.0min.@5000~5925MHz 20.0min.@5950~6500MHz

VFCF3117 TYPE

Part Number	Freq. Range	Average Insertion Loss In Pass Band	Return Loss	Attenuation
Units	MHz	dB	dB	dB
VFCF3117-3R450G-06T	3300~3600	1.1 dB Max.@25°C	14 Min.	70dBmin.@10~2000MHz 40dBmin.@2000~2700MHz 42dBmin.@2700~3200MHz 22dBmin.@3200~3240MHz 12dBmin.@3240~3260MHz 12dBmin.@3640~3660MHz 22dBmin.@3660~3700MHz 45dBmin.@3700~4000MHz 50dBmin.@4000~5000MHz

VFCF3122 TYPE

Part Number	Freq. Range	Average Insertion Loss In Pass Band	Return Loss	Attenuation
Units	MHz	dB	dB	dB
VFCF3122-2R600G-02T	2515~2675	1.45 dB Max.@25°C	14 Min.	35dB min.@2000~2400MHz 38dB min.@2400~2450MHz 16dB min.@2450~2475MHz 16dB min.@2715~2750MHz 40dB min.@2750~2800MHz 42dB min.@2800~2900MHz 30dB min.@2900~3300MHz 46dB min.@3300~3900MHz 20dB min.@3900~4400MHz 40dB min.@4400~4900MHz 6dB min.@4900~800MHz

VFCF5322 TYPE

Part Number	Freq. Range	Average Insertion Loss In Pass Band	Return Loss	Attenuation
Units	MHz	dB	dB	dB
VFCF5322-2R600G-06T	2515~2675	1.8 dB Max.@25°C	15 Min.	70dB min.@30~2300MHz 55dB min.@2300~2450MHz 35dB min.@2450~2500MHz 35dB min.@2700~2750MHz 55dB min.@2750~3300MHz 60dB min.@3300~5000MHz 10dB min.@5000~6000MHz

Multilayer Chip
LC FilterMultilayer Chip
BalunMultilayer Chip
DiplexerMultilayer Chip
TriplexerMultilayer Chip LC
CouplerMultilayer Chip
AntennaWire Wound Chip
Balun TransformerCeramic Dielectric
Filter

SPECIFICATIONS VFCE8246 TYPE

Part Number	Freq. Range	Average Insertion Loss In Pass Band	Return Loss	Attenuation
Units	MHz	dB	dB	dB
VFCE8246-3R450G-01T	3300~3600	1.1 dB Max.@25°C	14 Min.	75dB min.@690~810MHz 70dB min.@1920~2170MHz 70dB min.@2300~2400MHz 70dB min.@2496~2690MHz 45dB min.@2900~3100MHz 42dB min.@3100~3200MHz 22dB min.@3200~3240MHz 12dB min.@3240~3260MHz 12dB min.@3640~3660MHz 22dB min.@3660~3700MHz 42dB min.@3700~4000MHz 52dB min.@4800~4990MHz

SPECIFICATIONS VFCE9776 TYPE

Part Number	Freq. Range	Average Insertion Loss In Pass Band	Return Loss	Attenuation
Units	MHz	dB	dB	dB
VFCE9776-2R350G-01T	2300~2400	1.5 dB Max.@25°C	17 Min.	13dB min.@≥ ±10MHz 65dB min.@≥ ±25MHz 70dB min.@≥ ±40MHz 80dB min.@≥ ±120MHz

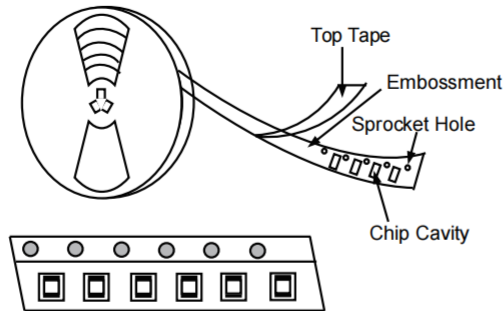
SPECIFICATIONS VFCD9370 TYPE

Part Number	Channel	Freq. Range	Average Insertion Loss In Pass Band	Return Loss	Attenuation
Units	/	MHz	dB	dB	dB
VFCD9370-1950-2140M-02T	CH1	1920~1980	2.5 dB Max.@25°C	14 Min.	75dB min.@690~810MHz 62dB min.@1820MHz 55dB min.@1850MHz 33dB min.@1895MHz 33dB min.@2005MHz 55dB min.@2040MHz 62dB min.@2080MHz 72dB min.@2110~2170MHz 70dB min.@2300~2400MHz 70dB min.@2496~2690MHz 50dB min.@3300~3600MHz 5dB min.@4800~4990MHz
	CH2	2110~2170	1.8 dB Max.225°C	14 Min	75dB min.@690~810MHz 71dB min.@1920~1980MHz 60dB min.@2010MHz 50dB min.@2040MHz 28dB min.@2080MHz 28dB min.@2200MHz 50dB min.@2230MHz 60dB min.@2270MHz 70dB min.@2300~2400MHz 70dB min.@2496~2690MHz 50dB min.@3300~3600MHz 5dB min.@4800~4990MHz

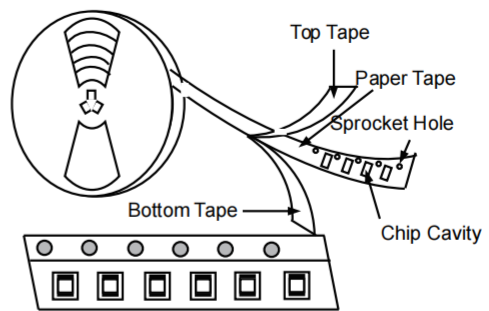
PACKAGING

TAPING DRAWINGS

◆ Embossed Tape

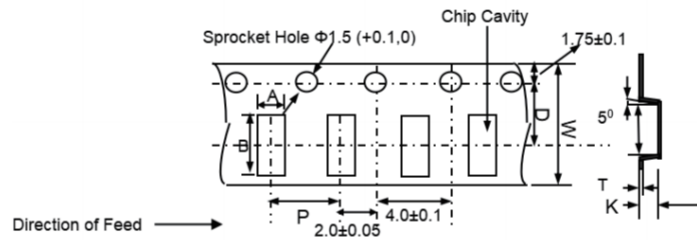


◆ Paper Tape



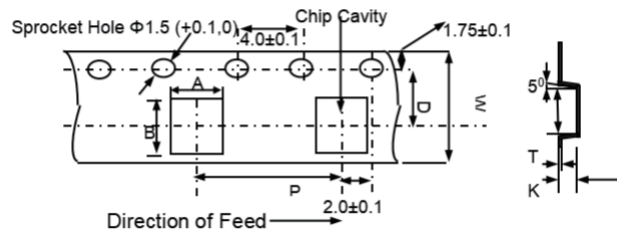
TAPING DIMENSIONS (Unit: mm)

◆ Embossed Tape (8/12mm Wide Tape)



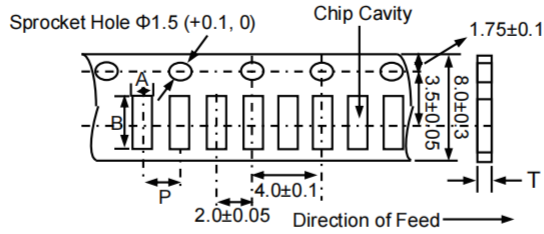
Type	Chip Thickness	W	A	B	D	P	K max	T max	Quantity (pcs/reel)
SLDA15	0.40	8.0	0.62	1.12	3.5	2.0	0.6	0.27	10,000
SLDA18	0.45	8.0	1.00	1.80	3.50	4.0	0.75	0.27	4,000
SLFB22/SLFD22	0.90	8.0	2.30	2.80	3.50	4.0	1.25	0.27	3,000
SLFB32	1.50	8.0	2.75	3.45	3.50	4.0	1.80	0.27	2,000
SLCP31	0.89	8.0	1.85	3.5	3.5	4.0	1.14	0.27	3,000
SLDA31	1.20	8.0	1.80	3.50	3.50	4.0	1.60	0.27	3,000
BW21S	1.20	8.0	1.55	2.25	3.50	4.0	1.45	0.20	2,000
BW21C	1.20	8.0	1.55	2.25	3.50	4.0	1.10	0.20	2,000
BW43S	3.20	12.0	3.51	4.82	5.50	4.0	3.05	0.35	2,000

◆ Embossed Tape (12/16/24/32/56mm Wide Tape)



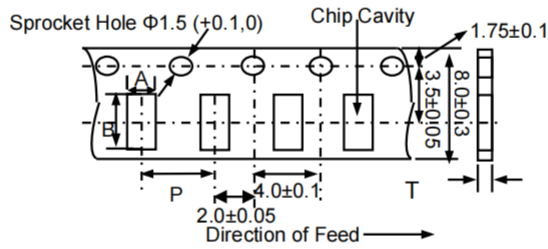
Type	Chip Thickness	W	A	B	D	P	K max	T max	Quantity (pcs/reel)
SLDA52	2.00	12.0	2.35	5.50	5.50	8.0	1.30	0.35	4,000
SLDA62	1.00	12.0	2.35	6.30	5.50	8.0	1.40	0.35	4,000
SLDA72	0.80	16.0	2.30	7.50	7.50	8.0	1.50	0.35	4,000
SLDA81	1.00	16.0	1.20	8.40	7.50	8.0	1.30	0.35	4,000
SLDA92	1.00	16.0	2.30	9.30	7.50	8.0	1.50	0.35	4,000
SLDA106	1.20	12.0	6.30	10.30	7.50	8.0	1.20	0.05	4,000
SLDA154	1.50	16.0	4.40	15.40	7.50	8.0	1.20	0.30	4,000

PACKAGING ◆ Paper Tape (8mm Wide Tape, 0603, 0605, 1005 Series)



Type	Chip Thickness	A	B	P	T max	Quantity (pcs/reel)
SLFL06/SLCP06/SLBL06	0.40	0.65	0.75	2.0	0.60	10,000
SLFB/SLFL/SLFH/SLFD/SLBL/SLCP15	0.38	0.65	1.15	2.0	0.60	10,000

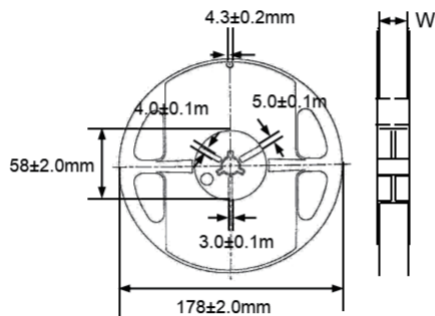
◆ Paper Tape (8mm Wide Tape)



Type	Chip Thickness	A	B	P	T max	Quantity (pcs/reel)
SLFB/SLFL/SLBL/SLFD/SLFH/SLCP18	0.60/0.65/ 0.75/0.8	1.00	1.80	4.0	0.75	4,000
SLFB/SLFL/SLBL/SLFD/SLFT/SLCP/SLFH21	0.95/0.8	1.42	2.25	4.0	0.27	4,000
SLFB19	0.65	1.05	1.3	4.0	0.7	5,000

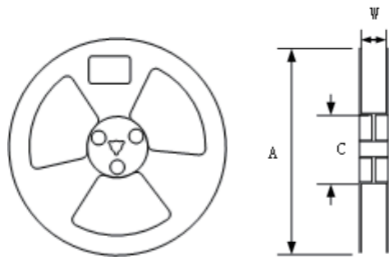
REEL DIMENSIONS (Unit: mm)

◆ 1.SLCP/SLFL/SLFB/SLFH/SLBL/SLFD/SLFT/BW21/SLDA15/18/31 Series



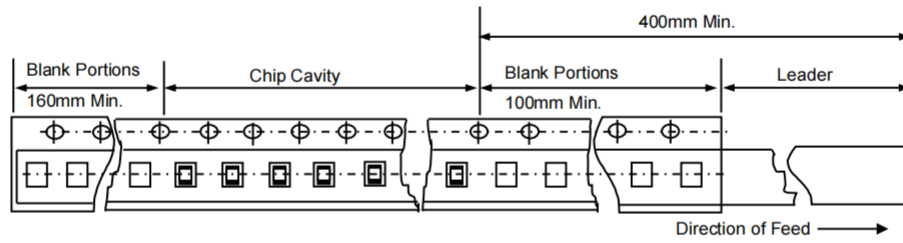
※W=8.4+1.5/-0.0mm.

PACKAGING ◆ 2.SLDA52/SLDA62/SLDA72/SLDA81/SLDA92/SLDA106/SLDA154 Series



Type	Spec.	Dimensions(mm)		
		A	W	C
SLDA52/62	13*12mm	330	12.5	100
SLDA72/81/92/106/154	13**16mm	330	16.5	100

LEADER AND BLANK PORTION



RF Components

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