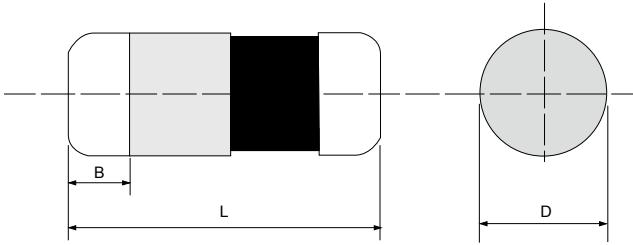


Quality • Reliability
Cost-Down via Innovation

ZMM



Specifications Per

• IEC 60115-1, IEC 60115-2

Features

- Excellent in heat dissipation than chip resistor
- Stronger mechanical structure to seismic vibration and thermal shock
- SMD enable structure
- Excellent solderability termination
- Stable metal film construction
- Products meet RoHS requirements and do not contain substances of very high concern identified by European Chemicals Agency

DIMENSIONS

Type	Body Length (L, mm)	Cap Diameter (D1, mm)	Body Diameter (D2, mm)	Soldering Spot (B, mm)	Net Weight Per 1000 pcs
ZMM102	2.10 ± 0.10	1.10 ± 0.1	D1+0.02/ -0.10	0.5 Min.	7 grams
ZMM204	3.52 ± 0.15	1.35 ± 0.1	D1+0.02/ -0.15	0.6 Min.	17 grams
ZMM207	5.90 ± 0.20	2.20 ± 0.1	D1+0.02/ -0.20	1.0 Min.	66 grams

GENERAL SPECIFICATIONS

Type	Maximum Resistance	Maximum Current
ZMM102	20mΩ	2A
ZMM204	20mΩ	3A
ZMM207	20mΩ	4A

Special value available on request.

TECHNICAL SPECIFICATIONS

Characteristics	Ranges & Limits	
Operating Temperature Range, °C	-55 ~ +200	
Dielectric Withstanding Voltage, VAC or DC	ZMM102	150
	ZMM204	200
	ZMM207	500
Insulation Resistance, MΩ	>10 ⁴	
Failure Rate in Time, pcs / 10 ⁹ device hours	<1.5	

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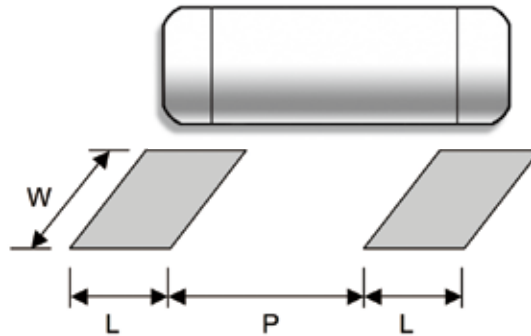
■ PART NUMBER

Example: ZMM204ZR000TKZTR3K0

ZMM204	Z	R000	TKZ	TR3K0
Type	Tolerance Z (Jumper)	Resistance* 0Ω 4-character code	TCR 3-character code TKZ= Default Product Temperature Coefficient	Packaging 5-character code TR = Tape Reel (pieces per reel) <u>ZMM102/ZMM204</u> 3K0 = 3,000 6K0 = 6,000** 10K = 10,000** <u>ZMM207</u> 2K0 = 2,000 6K0 = 6,000** 10K = 10,000**

* Please refer to the General Specifications section of ZMM datasheet for information on maximum resistance value. **upon request

■ SUGGESTED PAD LAYOUT



Type	Soldering Mode	Pad Length (L, mm, Min.)	Pad Spacing (P, mm)	Pad Width (W, mm, Min.)
ZMM102	Reflow	0.8	0.9 ± 0.05	1.3
	Wave	1.2	0.7 ± 0.05	1.5
ZMM204	Reflow	1.3	1.6 ± 0.1	1.6
	Wave	1.5	1.5 ± 0.1	1.8
ZMM207	Reflow	2.0	3.0 ± 0.1	3.0
	Wave	2.5	3.0 ± 0.1	3.0

For better heat dissipation / lower heat resistance, increase W & L.

■ COVER TAPE PEELING SPECIFICATION

Recommended peeling force: ZMM102, ZMM204, ZMM207: 50±5gf

