



1988/2015
Chachoengsao,
Thailand
Resistors



厚聲集團
Since 1978
Hsinchu,
Taiwan



1992 *It's all there!*
Kunshan, China
Resistors



2003
Kunshan, China
Raw Material



Est. 2016
Huai'an, China
Resistors

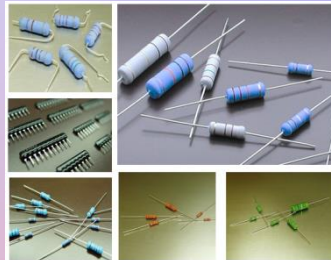
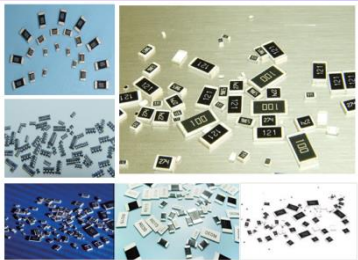


2009
Xiamen, China
Resistors

Shenzhen, China
Office & SMD Taping

46 years Resistor Specialist.

Reliability and Service creates the future of Uni-Royal Group!



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IATF 16949
ISO 14001



v220230330

Chip Resistors Shunt



SERIES

MS : Metal Foil

RA : Metal Alloy



MS : Metal Foil

Cross Reference Series :

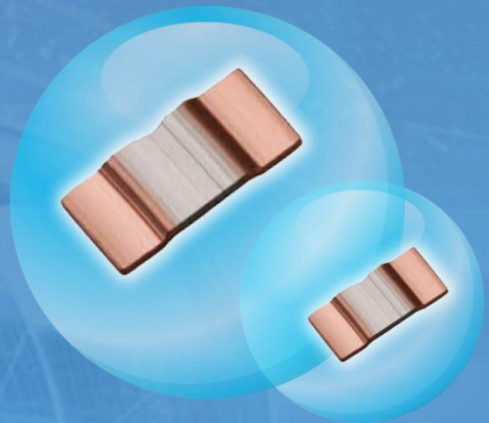
Yageo : PE

Applications:

- Battery Management System
- Power Supply/Module
- Current/Voltage Module
- Welding Machines
- Mobile Electronic Equipment
- Energy/Digital Meter
- BLDC Motor
- Industrial Tools/Controls

Features:

- High Power up to 15W
- Excellent Long Term Stability
- Sizes : 0201 to 5930
- T.C.R : ± 50 PPM & up
- AEC Q200 compliant (RA)



RA : Metal Alloy

Cross Reference Series :

Isabellenhutte : BVT, BVS, BVE



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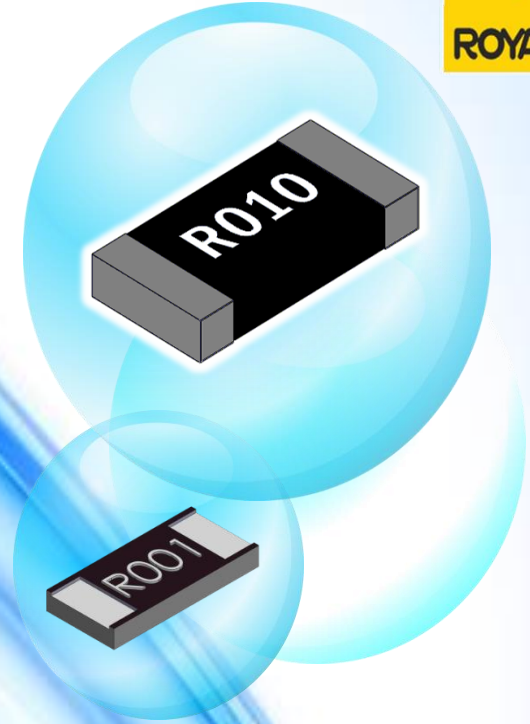
Metal Strip Chip Resistors

LR Series



Features:

- Size : 1206 & 2512
- Power Rating up to 3 watt
- Low T.C.R. until ± 50 PPM
- Value range: 1-350m Ω
- Tolerance : $\pm 1\%$, $\pm 5\%$
- Ideal current sense function
- AEC Q200 compliant



Applications :

- BMS
- AV adapters
- LED back-light
- Camera strobe
- SMPS / Power Supply
- Rectifiers
- Power Banks / Lithium Battery
- Industrial Inverter
- Digital Meters
- Sensor
- Motor Controller
- BLDC Motor

Cross Reference Series :

Vishay : WSL

ROHM : PMR

Bourns : CRA

TT : LRMA



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Automotive Thick Film Chip Resistors CQ Series



Features :

- AEC-Q200 Compliant
- Suitable for reflow and wave soldering
- Stable electrical capability, High Reliability
- Anti-Sulfuration
- Available in KIT packaging 1% E24



Applications :

- Entertainment System
- Outdoor Electronic app
- Comfort & Safety Controls
- Lighting
- Batteries & Chargers
- Telecom
- Consumer Electronics
- General purpose

Cross Reference Series :

Vishay : CRCW

KOA : RK73B/H

Yageo : AC



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Ultra High Power Thick Film SP Series



Features :

- High Power Rating up to 6W
- Surge Withstanding Capability
- AEC-Q200 Compliant
- Suitable for both wave & reflow soldering
- SP12 available in KIT packaging (E-24)
- Product design patent # : I566261



Applications :

- EV Charging system
- Lighting converter/beacon
- Automotive
- Consumer electronics
- LCD back light
- Power supply/tools
- Medical
- Battery Chargers/BMS
- Telecom Equipment
- Digital Cameras
- Computer & Wi Fi modules
- Warning System & Security
- Relay
- Inverter
- Automation Controls
- Energy Management



Cross Reference Series :

Bourns : CHP

Vishay : RCP



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Surge Thick Film Chips

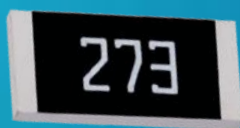
AS Series – Anti Surge

PS Series – High Precision



Features :

- AEC-Q200 Compliant
- Superior Anti-Surge Voltage performance
- Wave & Re-flow soldering
- Precision Anti-Surge - PS series



Applications :

- Metering
- AV adapters
- LCD back-light
- Power Supply
- Chargers / Inverters
- Monitors
- Automotive
- Consumer Electronics

Cross Reference Series :

Vishay : CRCW -IF/HP

Yageo : SR-7W/7R

ROHM : ESR

Panasonic: ERJ



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High Power Thick Film HP Series



Features :

- Comply with AEC-Q200
- High Power in standard size
- Low Ohmic value : $0.01\Omega \sim 0.976\Omega$
- Space Saver
- Suitable for both wave & re-flow soldering
- Available in KIT packaging (E24)



Applications :

- AV adapters
- Automotive
- PDA's
- Digital Meter
- Industrial
- Battery Charger
- LCD back-light
- Camera strobe
- SMPS / Power Supply
- General purpose

Alternative for :

Vishay : RCP

Bourns : CHP

Yageo : RC/AC-7W *



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High Precision Thin Film TC Series



Features :

- Ni Cr Resistance element
- Very tight tolerance
- Extremely low TCR
- Complete lead-free

Applications :

- Metering
- Lighting
- Power Supply
- Consumer Electronics
- Communication / Telecom
- Industrial Controls
- Medical Equipment
- Heating & Ventilation Systems

Cross Reference Series :

KOA : RN

Yageo : RT

Panasonic: ERA



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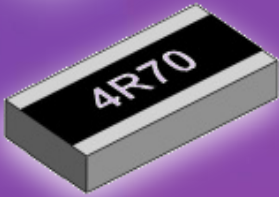
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Wide Terminal Thick Film WR Series



Features :

- High Power
- Suitable for both wave & re-flow soldering
- Good Heat Dissipation
- Excellent solderability
- AEC-Q200 compliant



Applications :

- Consumer Electronics
- Printer
- Power Supply
- Lighting
- Automotive / EV Charging
- BLDC Motors
- Alarms & securities

Cross Reference Series :

TT : WHPC

KOA : WK73

VISHAY : RCL

PANASONIC : ERJB/A



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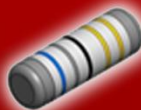
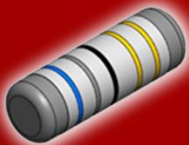
DOB RESISTOR Anti Surge Fusible Wire Wound MELF (FA39)



A Melf Type resistors manufactured with high quality resistance wire & ceramic rods suitable for surface mount technologies.

Features:

- Fuse Function
- Wire-Wound Technology
- Surge up to 3KV
- Excellent Flame Retardant
- SMD Type Auto Insertion
- Suitable for reflow soldering



Applications :
Lighting, HVAC



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Anti-Surge Wire Wound FWRA Series KNPA Series



Features :

- Excellent flame retardant coating
- Power up to 10W
- Low / High value available
- Anti surge function (IEC 61000-4-5)
- Surge immunity up to 10KV
- High Power in small body size available

Applications :

- Motor Control Applications, TV, Monitors
- Test & Measurement Equipment
- Surge Protection & Voltage Divider
- Power Supply, Power Electronic control
- Dishwashers, Dryers, Washing Machines
- Energy / Smart / Digital meter

Alternative for :

Vishay : Z300-C, CWHS

TT Electronics : WHS

* Higher surge available case to case basis

* Special fusing wire wound can be supplied on a case to case basis



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Fusible Wire-Wound FWR & FWRA (Surge) Series



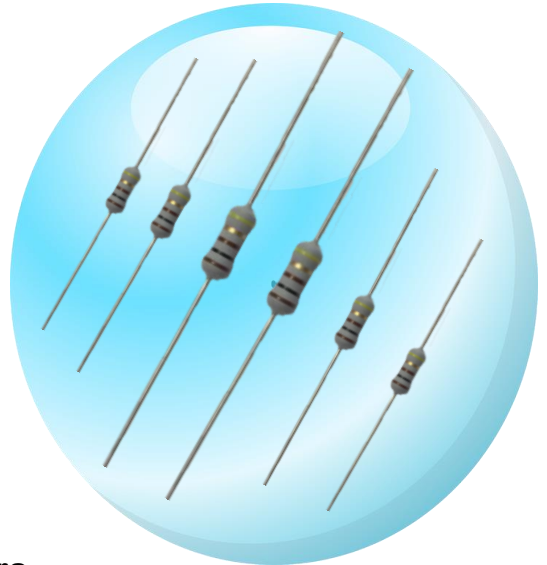
Features:

- UL approved - No. E306074
- Surge Voltage up to 7KV
- Fuse function
- Rated Voltage up to 250V
- Available at 5% from 1W,1W-S, 2W,2W-S,3W,3W-S
- Surge function base on IEC 61000-4-5
- Excellent flame resistance



Applications :

- LED Lighting / LED Drivers
- Mobile & Laptop Charger
- Energy Meter
- Test & Measurement Equipment
- Surge Protection & Voltage Divider
- Power Supply, Discharge Path Resistors
- White Goods



Power Ribbon Wire-Wound QR/QRZG Series QL/QH Series



Features :

- High power load up to 2500W
- Good resistivity to short time overload
- High resistivity to heat in low TCR
- Too low or high ohmic value can supplied on a case to case basis
- Multi-terminal / variable types available by request

Applications :

- Discharge Equipment
- Power load bank
- Tools that requires stability & reliability
- Industrial braking function
- EV Battery pack
- Drone charging station

Cross Reference Series :

Krah Rwi : ZSB

Riedon : BR, BRT



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Global Leader of Passive Components



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Telecom . Computer Peripherals . Medical . Industrial . IoT . BMS . LED/Lighting



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