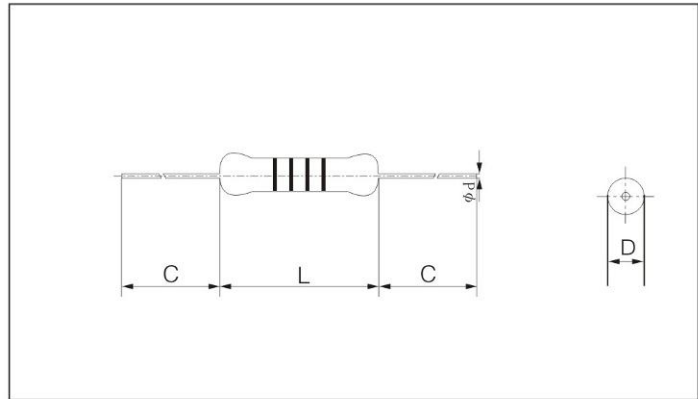


Construction



Characteristics

- Coated style
- High stability: $\pm 1.0\%$, 70°C , 1000h

Applications

MC series resistors are axial leaded structure, coated with insulating coatings, color ring marking, with small size, high precision, small temperature coefficient, stable resistance value, etc., and cost-effective products, widely used in industrial control instruments.

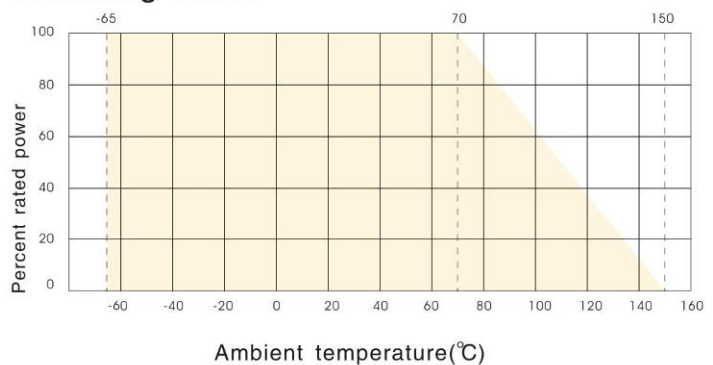
Reference Standards

- GJB1929-1994 General Specification for High Stability Film Fixed Resistors
- Q/BDS 008-2005 MC Type High Stability Metal Film Fixed Resistors Detailed Specification

Dimensions (mm)

size	L ± 0.3	D ± 0.3	C ± 2	d ± 0.05
MC0204	4.20	1.5	27	0.50
MC0207	7.0	2.4	26	0.60

Derating Curve



Technical Specifications

Type	Power Rating at 70°C	Max Working Voltage (V)	Resistance Range (Ω)	Absolute Tolerance	TCR ($10^{-6}/\text{K}$)
MC0204	1 / 6	200	20~1M Ω	B($\pm 0.1\%$), C($\pm 0.25\%$), D($\pm 0.5\%$),	C3(± 25), C2(± 50),
MC0207	1 / 4	250	10~2M Ω	F($\pm 1.0\%$), G($\pm 2.0\%$), J($\pm 5.0\%$)	C1(± 100)

■ Performance

Test Item	Standards	Test Method
Short Time Overload	$\leq \pm(0.5\%R+0.05\Omega)$	2.5 times the rated voltage, the maximum voltage does not exceed 2 times the limit voltage, 5s
Temperature shock	$\leq \pm(0.5\%R+0.05\Omega)$	-65°C ~ 150°C, 5 cycles, 0.5h
Low temp. Operation	$\leq \pm(0.5\%R+0.05\Omega)$	-65°C, 1h, rated voltage not more than 200V, 45min
Dielectric Strength	$\leq \pm(0.5\%R+0.05\Omega)$	450V, 1min, 100v/s
Resistance to Solder	$\leq \pm(0.5\%R+0.05\Omega)$	350°C, 3s
Resistance to moisture	$\leq \pm(1.5\%R+0.05\Omega)$	-10°C ~ 65°C, RH80-98%, 240h
Load life	$\leq \pm(1.0\%R+0.05\Omega)$	70°C, Pe, 1000h
Shock	$\leq \pm(0.5\%R+0.05\Omega)$	980m/s ² , 6ms
Vibration	$\leq \pm(0.5\%R+0.05\Omega)$	10 ~ 2000Hz, 0.75mm, 150m/s ²

■ Electrical data-Tolerance, TCR & Resistance range

Type	TCR (10 ⁻⁶ /K)	Resistance Range					
		±0.1%	±0.25%	±0.5%	±1.0%	±2.0%	±5.0%
MC0204	25	20R~1M0	20R~1M0	20R~1M0	20R~1M0	20R~1M0	20R~1M0
	50	20R~1M0	20R~1M0	20R~1M0	20R~1M0	20R~1M0	20R~1M0
	100	20R~1M0	20R~1M0	20R~1M0	20R~1M0	20R~1M0	20R~1M0
MC0207	25	10R~2M0	10R~2M0	10R~2M0	10R~2M0	10R~2M0	10R~2M0
	50	10R~2M0	10R~2M0	10R~2M0	10R~2M0	10R~2M0	10R~2M0
	100	10R~2M0	10R~2M0	10R~2M0	10R~2M0	10R~2M0	10R~2M0

■ How To Order

Example

MC	0204	1/6W	10R	±0.1%	±2(10 ⁻⁶ /K)	Plastic bags
Type	Style	Power	Nominal Value	Tolerance	TCR	Packaging
MC	0204 0207	1/6W 1/4W	10R	±0.1% ±0.25% ±0.5% ±1.0% ±2.0% ±5.0%	±25(10 ⁻⁶ /K) ±50(10 ⁻⁶ /K) ±100(10 ⁻⁶ /K)	plastic bags 500 pieces tape available for 1000 pieces

Packaging: Plastic recloseable bags (moq: 30pcs).