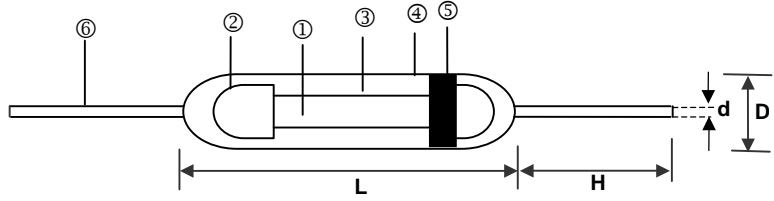


Metal Oxide Film Led Resistor – MOF Series

Construction



① Ceramic Rod	④ Non-flame Paint With Sol Vent-proof
② Tinned Iron Caps	⑤ Color Code
③ Metal Outside	⑥ Lead Wire

Features

- Excellent Long-Time stability
- High surge / overload capability
- Wide resistance range: 0.1Ω~10MΩ
- Controlled temperature coefficient
- Resistance standard tolerance: ±5% (consult factory for ±2% ±1%)
- Electrical and mechanical stability and high reliability

Dimensions

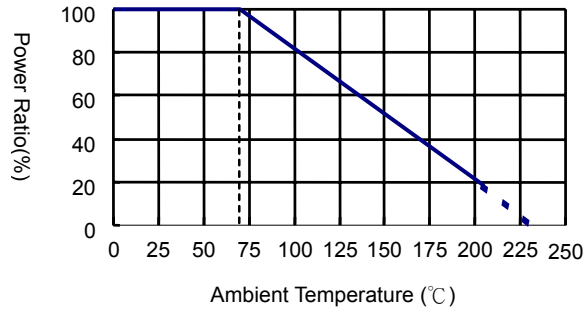
Unit: mm

Type	L	D	H	d	Weight (g) (1000pcs)
MOF0623	6.3±0.5	2.3±0.3	28±2.0	0.55±0.03	156
MOF0932	9.0±0.5	3.2±0.5	26±2.0	0.65±0.03	355
MOF1145	11.5±1.0	4.5±0.5	35±2.0	0.78±0.03	760
MOF1550	15.5±1.0	5.0±0.5	32±2.0	0.78±0.03	1040

Applications

- Automotive
- Telecommunication
- Medical Equipment

Derating Curve



Part Numbering

MOF	0623	F	A	F	U	1001	MA
Product Type	Dimensions (L×D)	Resistance Tolerance	Packaging Code	TCR (PPM/°C)	Power Rating	Resistance	Special
	0623: 6.3x2.3 0932: 9.0x3.2 1145: 11.5x4.5 1550: 15.5x5.0	F: ±1% G: ±2% J: ±5%	A: Ammo B: Bulk T: Taping Reel	F: ±200	: Standard R: 3W S: 2W T: 1W U: 1/2W	R500: 0.5Ω 0010: 1Ω 1000: 100Ω 2201: 2200Ω 1001: 1KΩ 1004: 1MΩ	: Standard MA: MA-type MB: MB-type MC: MC-type FA: FA-type FB: FB-type FC: FC-type

Standard Electrical Specifications

Item Type	Power Rating at 70°C	Operating Temp. Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range			TCR (PPM/°C)
						±1%	±2%	±5%	
0623	1/4W	-55 ~ +155°C	200V	350V	350V	0.1Ω - 10MΩ		0.1Ω-22MΩ	±200
0932	1/2W		250V	400V	350V	0.1Ω - 1MΩ	0.1Ω - 10MΩ		
1145	1W		500V	600V	500V	0.1Ω - 1MΩ	0.1Ω - 10MΩ		
1550	2W		550V	600V	500V	0.1Ω - 1MΩ	0.1Ω - 10MΩ		

High Power Rating Electrical Specifications

Item Type	Power Rating at 70°C	Operating Temp. Range	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Resistance Range			TCR (PPM/°C)
						±1%	±2%	±5%	
0623	1/2W	-55 ~ +155°C	250V	400V	350V	0.1Ω - 10MΩ			±200
0932	1W		300V	500V	400V	0.1Ω - 1MΩ	0.1Ω - 10MΩ		
1145	2W		500V	600V	500V	0.1Ω - 1MΩ	0.1Ω - 10MΩ		
1550	3W		750V	700V	600V	0.1Ω - 1MΩ	0.1Ω - 10MΩ		

■ Resistor body color: Standard Power Rating: Grey High Power Rating: Pink

Environmental Characteristics

Item	Requirement	Test Method
Short Time Overload	±(0.25%+0.05Ω)	RCWV*2.5 or Max. overload voltage for 5 seconds
Insulation Resistance	> 1000MΩ	Apply 100V _{DC} for 1 minute
Endurance	±(1.5%+0.05Ω)	70±2°C, Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Damp Heat with Load	±(1.5%+0.05Ω)	40±2°C, 90~95% R.H. Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Solderability	90% min. Coverage	245±5°C for 3 seconds
Dielectric Withstanding Voltage	By Type	Apply Max. Overload Voltage for 1 minute
Temperature Coefficient	By Type	Resistance value at room temperature and room temperature+100°C
Pulse Overload	±(1%+0.05Ω)	4 times RCWV for 10000 cycles with 1second "ON" and 25 seconds "OFF"
Resistance To Solvent	No deterioration of coatings and markings	Trichroethane for 1 min. with ultrasonic
Terminal Strength	Tensile: ≥2.5kg	Direct Load for 10 seconds In the direction off the terminal leads

■ Reference Standards: JIS-C 5201-1

■ Storage Temperature: 25±3°C; Humidity < 80%RH