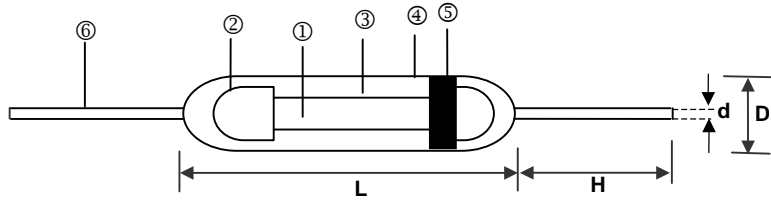


Metal Oxide Film Leaded Resistor – MOF Series

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

Applications

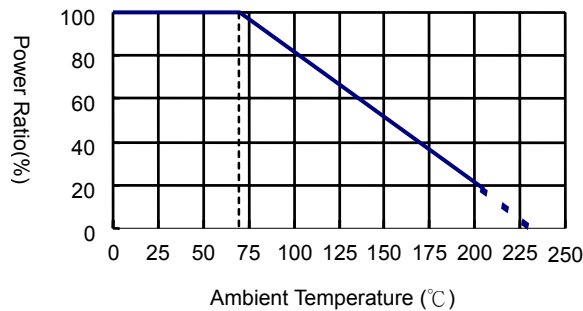
- Automotive
- Telecommunication
- Medical Equipment

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
MOF1765	17.5±1.0	6.5±0.5	35±2.0	0.78±0.03	1800
MOF2485	24.5±1.0	8.5±0.5	35±2.0	0.78±0.03	4000

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 1765: 17.5x6.5 2485: 24.5x8.5	F: ±1% G: ±2% J: ±5%	A: Ammo B: Bulk T: Taping Reel	F: ±200	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

Type	Item	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		
1765		3W		800V	1000V	750V	0.1Ω - 470KΩ	0.1Ω - 560KΩ	0.1Ω - 1MΩ	
2485		5W		1000V	1000V	750V	0.1Ω - 470KΩ	0.1Ω - 560KΩ	0.1Ω - 1MΩ	

High Power Rating Electrical Specifications

Type	Item	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		
1765		5W		1000V	1000V	750V	0.1Ω - 470KΩ	0.1Ω - 560KΩ	0.1Ω - 1MΩ	
2485		7W		1000V	1000V	750V	0.1Ω - 470KΩ	0.1Ω - 560KΩ	0.1Ω - 1MΩ	

- Resistor body color: Standard Power Rating: Grey
High Power Rating 1765 / 2485 Sizes: Grey Other Sizes: 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

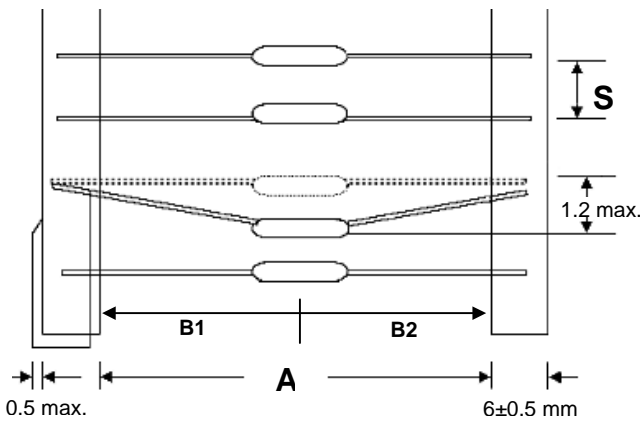
- Reference Standards: JIS-C 5201-1

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

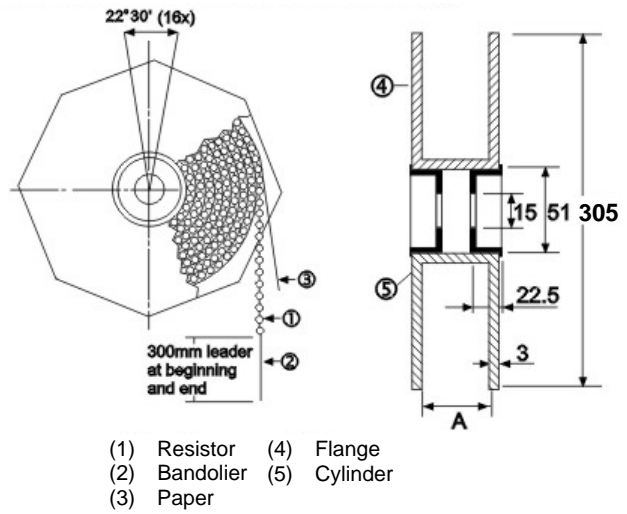
■ Taping/Packing Specifications (For MFR / MOF / CFR)

1. Standard Type (Reel & Ammo)

Packing Methods



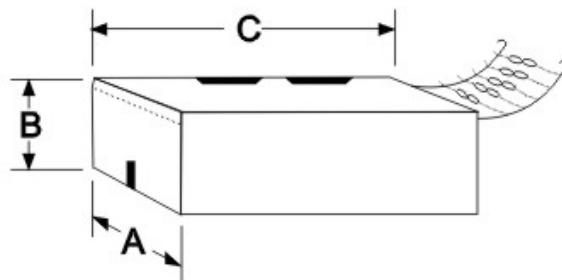
Reel Packing



Unit: mm

Type	Packing Methods			Reel Packing			
	A	B1-B2	S	Across Flange (A)	MFR Qty	CFR Qty	MOF Qty
0318	52+1/-0	1.2	5	72	5,000	5,000	-
0623	52+1/-0	1.2	5	72	5,000	5,000	5,000
0932	52+1/-0	1.2	5	72	2,500	2,500	2,500
1145	52+1/-0	1.5	5	95	2,000	2,000	2,000
1550	52+1/-0	1.5	10	95	1,000	1,000	1,000
1765	73+1/-0	1.5	10	95	-	-	1,000
2485	88+1/-0	1.5	10	110	-	-	500

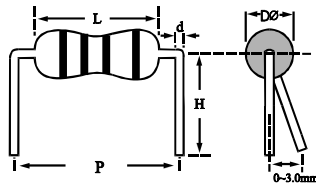
Ammo Packing



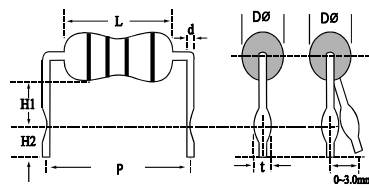
Unit: mm

Type	Packing Methods			Ammo Packing					
	A	B1-B2	S	A	B	C	MFR Qty	CFR Qty	MOF Qty
0318	26+1/-0	1.0	5	80	75	264	5,000	5,000	-
0623	26+1/-0	1.0	5	80	105	264	5,000	5,000	5,000
0932	52+1/-0	1.2	5	80	46	264	1,000	1,000	1,000
1145	73+1/-0	1.5	5	103	82	265	1,000	1,000	1,000
1550	73+1/-0	1.5	10	103	96	265	1,000	1,000	1,000
1765	73+1/-0	1.5	10	105	75	270	-	-	500
2485	88+1/-0	1.5	10	115	75	270	-	-	250

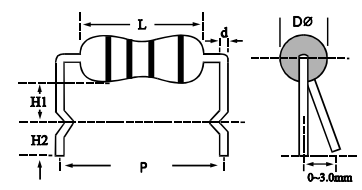
2. Special Type (Bulk)



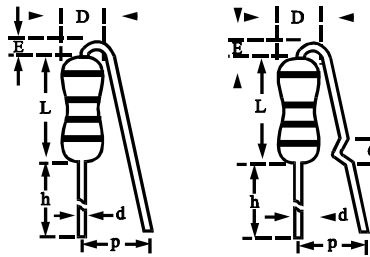
MA Type



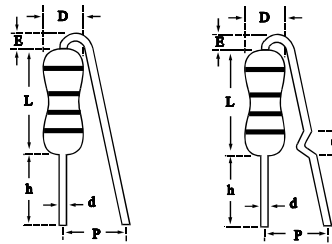
MB Type



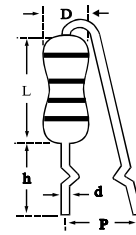
MC Type



FA Type



FB Type



FC Type

Unit: mm

Product Type	Type	P	H /H1/h	H2/G	t	D	L	d	E
0318	MA	5.00±1	5.00±1	-	-	1.8±0.3	3.30±0.4	0.45±0.03	-
0623	MA	10.0±1	10.0±1	-	-	2.3±0.3	6.30±0.5	0.55±0.03	-
	FA	10.0±1	28.0±2	2.00±0.5	-	2.3±0.3	6.30±0.5	0.55±0.03	2.00±0.5
	FB	10.0±1	8.00±1	2.00±0.5	-	2.3±0.3	6.30±0.5	0.55±0.03	2.00±0.5
0932	MA	12.5±1	10.0±1	-	-	3.2±0.5	9.00±0.5	0.65±0.03	-
	FC	6.00±1	10.0±1	-	-	3.2±0.5	9.00±0.5	0.65±0.03	-
1145	MA	15.0±1	12.5±1	-	-	4.5±0.5	11.5±1.0	0.78±0.03	-
	MB	15.0±1	6.00±1	5.00±1.0	1.4±0.2	4.5±0.5	11.5±1.0	0.78±0.03	-
	MC	15.0±1	6.00±1	5.00±1.0	-	4.5±0.5	11.5±1.0	0.78±0.03	-
	FC	6.00±1	10.0±1	-	-	4.5±0.5	11.5±1.0	0.78±0.03	-
1550	MA	20.0±1	15.0±1	-	-	5.0±0.5	15.5±1.0	0.78±0.03	-
	MB	20.0±1	10.0±1	5.00±1.0	1.4±0.2	5.0±0.5	15.5±1.0	0.78±0.03	-
	MC	20.0±1	10.0±1	5.00±1.0	-	5.0±0.5	15.5±1.0	0.78±0.03	-
	FC	6.00±1	10.0±1	-	-	5.0±0.5	15.5±1.0	0.78±0.03	-