Metal Oxide Resistors

MO Series



Features:

- Flameproof
- Only available in RoHS compliant version
- Meets overload test of UL#1412
- Meets solvent test of method 215 of MIL-STD-202
- Low cost alternative for power carbon composition and wirewounds
- TCR ±200 ppm
- Coating meets UL-94V-0

NOT RECOMMENDED FOR NEW DESIGNS

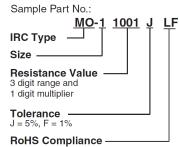
PERFORMANCE CHARACTERISTICS (Tested Per MIL-R-22684 Rev. C):

ELECTRICAL	MO 1/2	MO 1	MO 2	MO 3	MO 5
Power Ratings @ 70°C (watts)	1/2	1	2	3	5
Derated to 0 Load at	200°C	200°C	200°C	200°C	200°C
Maximum Working Voltage (volts)	250	350	350	500	750
Operating Temperature Range	-55°C to +200°C	-55°C to +200°C	-55°C to +200°C	-55°C to +200°C	-55°C to +200°C
Resistance Range (ohms)	0.1 - 75K (±5%) 0.1 - 75K (±1%)	0.1 - 120K (±5%) 0.1 - 100K (±1%)	0.1 - 150K (±5%) 0.1 - 120K (±1%)	1 - 150K (±5%) 10 - 10K (±1%)	1 - 180K (±5%) 10 - 10K (±1%)
Environmental (Operating Temperature		, ,			
Moisture Resistance	±1.5%	±1.5%	±1.5%	±1.5%	±1.5%
Thermal Shock	±1%	±1%	±1%	±1%	±1%
Load Life @ 70°C - 1000 hrs.	±2%	±2%	±2%	±2%	±2%
Shock and Vibration	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Resistance to Soldering Heat	±0.55+0.05Ω	±0.55+0.05Ω	±0.55+0.05Ω	±0.55+0.05Ω	±0.55+0.05Ω
Terminal Strength	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Dielectric Withstand Voltage	400V RMS	700V RMS	700V RMS	800V RMS	800V RMS
Maximum Pulse Voltage	400V	750V	1000V	1500V	1500V
Insulation Resistance	10,000 meg min.	10,000 meg min.	10,000 meg min.	10,000 meg min.	10,000 meg min.
Voltage Coefficient	0.001%/V	0.001%/V	0.001%/V	0.001%/V	0.001%/V
Short Time Overload	±(0.5+0.05Ω)	±(0.5+0.05Ω)	±(0.5+0.05Ω)	±(0.5+0.05Ω)	±(0.5+0.05Ω)

DIMENSIONS (Inches and (mm)):

-	A B		MO 2: 100 MO 3: 100 MO 5: 100	0/reel 0/reel 0/ammo box 0/bulk box 10/bulk box
	Α	В	С	D
MO 1/2	1.10±0.08 (28.0±2.0)	0.35±0.04 (9.0±1.0)	0.024±0.002 (0.60±0.05)	0.14±0.02 (3.5±0.5)
MO 1	1.10±0.08 (28.0±2.0)	0.43±0.04 (11.0±1.0)	0.028±0.002 (0.70±0.05)	0.18±0.02 (4.5±0.5)
MO 2	1.26±0.12 (32.0±3.0)	0.59±0.02 (15.0±0.5)	0.029±0.002 (0.75±0.05)	0.2±0.04 (5.0±1.0)
MO 3	1.38±0.12 (35.0±3.0)	0.71±0.04 (17.5±2.0)	0.031±0.002 (0.80±0.05)	0.26±0.04 (6.5±1.0)
MO 5	1.38±0.12 (35.0±3.0)	0.96±0.04 (24.5±1.0)	0.031±0.002 (0.80±0.05)	0.34±0.04 (8.5±1.0)

HOW TO ORDER:



LF = RoHS compliant construction

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

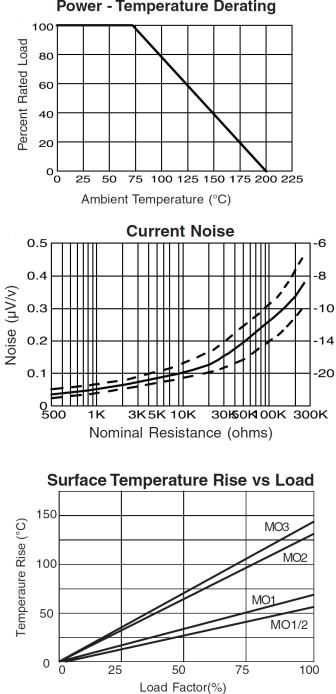
www.ttelectronics.com/resistors TT Electronics, 4222 South Staples St., Corpus Christi, TX 78411, USA TT Electronics, Welwyn Electronics Park, Bedlington, Northumberland, NE22 7AA, UK

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Power - Temperature Derating

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