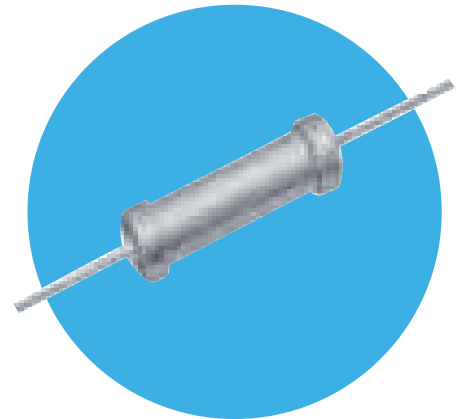


Metal Oxide Resistors

MO Series

- 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



All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

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 ($\pm 5\%$) 0.1 - 75K ($\pm 1\%$)	0.1 - 120K ($\pm 5\%$) 0.1 - 100K ($\pm 1\%$)	0.1 - 150K ($\pm 5\%$) 0.1 - 120K ($\pm 1\%$)	1 - 150K ($\pm 5\%$) 10 - 10K ($\pm 1\%$)	1 - 180K ($\pm 5\%$) 10 - 10K ($\pm 1\%$)
Environmental (Operating Temperature Range: -55°C to +200°C)					
Moisture Resistance	$\pm 1.5\%$	$\pm 1.5\%$	$\pm 1.5\%$	$\pm 1.5\%$	$\pm 1.5\%$
Thermal Shock	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
Load Life @ 70°C - 1000 hrs.	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$
Shock and Vibration	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
Resistance to Soldering Heat	$\pm 0.55+0.05\Omega$	$\pm 0.55+0.05\Omega$	$\pm 0.55+0.05\Omega$	$\pm 0.55+0.05\Omega$	$\pm 0.55+0.05\Omega$
Terminal Strength	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
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	$\pm(0.5+0.05\Omega)$	$\pm(0.5+0.05\Omega)$	$\pm(0.5+0.05\Omega)$	$\pm(0.5+0.05\Omega)$	$\pm(0.5+0.05\Omega)$

DIMENSIONS (Inches and (mm)):

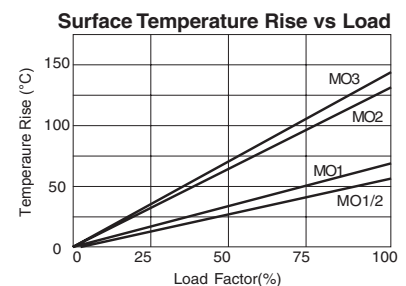
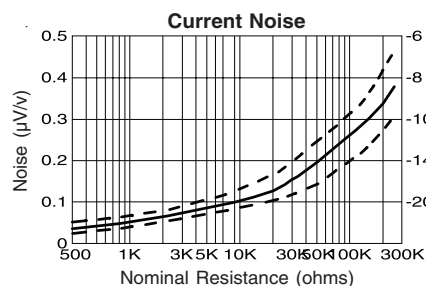
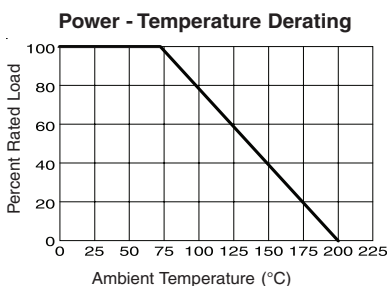
	A	B	C	D
MO 1/2	1.10 \pm 0.08 (28.0 \pm 2.0)	0.35 \pm 0.04 (9.0 \pm 1.0)	0.024 \pm 0.002 (0.60 \pm 0.05)	0.14 \pm 0.02 (3.5 \pm 0.5)
MO 1	1.10 \pm 0.08 (28.0 \pm 2.0)	0.43 \pm 0.04 (11.0 \pm 1.0)	0.028 \pm 0.002 (0.70 \pm 0.05)	0.18 \pm 0.02 (4.5 \pm 0.5)
MO 2	1.26 \pm 0.12 (32.0 \pm 3.0)	0.59 \pm 0.02 (15.0 \pm 0.5)	0.029 \pm 0.002 (0.75 \pm 0.05)	0.2 \pm 0.04 (5.0 \pm 1.0)
MO 3	1.38 \pm 0.12 (35.0 \pm 3.0)	0.71 \pm 0.04 (17.5 \pm 2.0)	0.031 \pm 0.002 (0.80 \pm 0.05)	0.26 \pm 0.04 (6.5 \pm 1.0)
MO 5	1.38 \pm 0.12 (35.0 \pm 3.0)	0.96 \pm 0.04 (24.5 \pm 1.0)	0.031 \pm 0.002 (0.80 \pm 0.05)	0.34 \pm 0.04 (8.5 \pm 1.0)

PACKAGING:
 MO 1: 2500/reel
 MO 2: 1000/reel
 MO 3: 1000/ammo box
 MO 5: 1000/bulk box
 All Above: 1000/bulk box

HOW TO ORDER:

Sample Part No.: **MO-1 1001 J LF**

IRC Type MO-1
Size 1001
Resistance Value J (3 digit range and 1 digit multiplier)
Tolerance LF (J = 5%, F = 1%)
RoHS Compliance LF = RoHS compliant construction



General Note

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