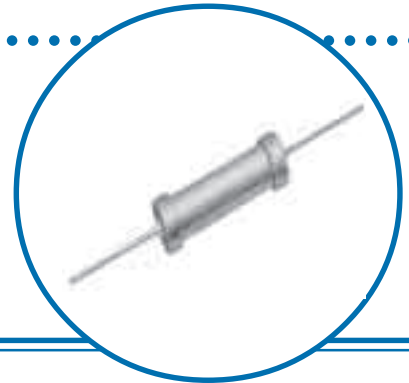


METAL OXIDE RESISTORS

- 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



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)):

PACKAGING:

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

	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)	0.028 \pm 0.002 (0.70 \pm 0.05)	0.12 \pm 0.02 (3.0 \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)	0.16 \pm 0.02 (4.0 \pm 0.5)
MO 2	1.50 \pm 0.12 (38.0 \pm 3.0)	0.59 \pm 0.02 (15.0 \pm 0.5)	0.031 \pm 0.002 (0.80 \pm 0.05)	0.22 \pm 0.04 (5.5 \pm 1.0)
MO 3	1.50 \pm 0.12 (38.0 \pm 3.0)	0.98 \pm 0.04 (25.0 \pm 2.0)	0.031 \pm 0.002 (0.80 \pm 0.05)	0.34 \pm 0.04 (8.5 \pm 1.0)
MO 5	1.50 \pm 0.12 (38.0 \pm 3.0)	1.61 \pm 0.04 (41.0 \pm 1.0)	0.031 \pm 0.002 (0.80 \pm 0.05)	0.34 \pm 0.04 (8.5 \pm 1.0)

HOW TO ORDER:

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

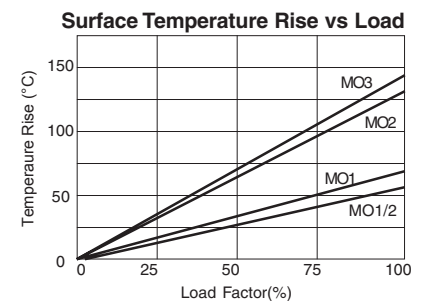
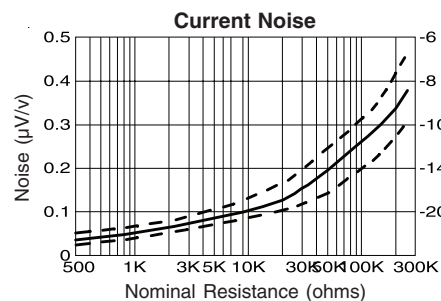
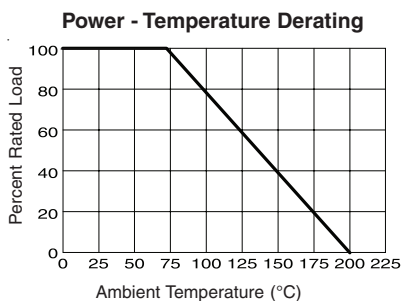
IRC Type MO-1

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

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

WIREWOUND AND FILM TECHNOLOGIES DIVISION • 4222 South Staples Street • Corpus Christi Texas 78411 USA
 Telephone: 361-992-7900 • Facsimile: 361-992-3377 • Website: www.ircct.com



A subsidiary of
 TT electronics plc
 Issue October 2008