

# Metal Oxide Mini Series Resistors



**MOM Series** NOT RECOMMENDED FOR NEW DESIGNS  
(WMO-S SERIES PREFERRED)

## Features

- Flame proof - Meets overload test of UL #1412
- Only available in RoHS compliant version
- Ideal substitute where size restraints apply
- Offers all electrical/performance characteristics of the standard size Metal Oxide product
- TCR  $\pm 200$  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	MOM 1/2	MOM 1	MOM 2	MOM 3	MOM 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	350	500
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 - 47K ( $\pm 5\%$ ) 0.1 - 47K ( $\pm 1\%$ )	0.1 - 75K ( $\pm 5\%$ ) 0.1 - 75K ( $\pm 1\%$ )	0.1 - 100K ( $\pm 5\%$ ) 0.1 - 100K ( $\pm 1\%$ )	0.1 - 120K ( $\pm 5\%$ ) 0.1 - 120K ( $\pm 1\%$ )	1 - 150K ( $\pm 5\%$ ) 100 - 4.99K ( $\pm 1\%$ )
<b>Environmental</b> (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	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
Terminal Strength	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
Dielectric Withstand Voltage	400V	600V	600V	600V	800V
Maximum Pulse Voltage	400V	750V	750V	750V	1000V
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	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$

## DIMENSIONS (Inches and (mm)):

**PACKAGING:**  
MOM 1/2: 5000/reel  
MOM 1, 2: 2500/reel  
MOM 3: 1000/reel  
MOM 5: 1000/ammo box  
All Above: 1000/bulk box

	A	B	C	D
<b>MOM 1/2</b>	1.10 $\pm$ 0.12 (28.0 $\pm$ 3.0)	0.26 $\pm$ 0.02 (6.5 $\pm$ 0.5)	0.020 $\pm$ 0.002 (0.52 $\pm$ 0.05)	0.09 $\pm$ 0.01 (2.3 $\pm$ 0.2)
<b>MOM 1</b>	1.10 $\pm$ 0.12 (28.0 $\pm$ 3.0)	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)
<b>MOM 2</b>	1.18 $\pm$ 0.12 (30.0 $\pm$ 3.0)	0.43 $\pm$ 0.04 (11.0 $\pm$ 1.0)	0.028 $\pm$ 0.004 (0.70 $\pm$ 0.10)	0.18 $\pm$ 0.02 (4.5 $\pm$ 0.5)
<b>MOM 3</b>	1.18 $\pm$ 0.12 (30.0 $\pm$ 3.0)	0.59 $\pm$ 0.04 (15.0 $\pm$ 1.0)	0.028 $\pm$ 0.004 (0.70 $\pm$ 0.10)	0.20 $\pm$ 0.04 (5.0 $\pm$ 1.0)
<b>MOM 5</b>	1.38 $\pm$ 0.12 (35.0 $\pm$ 3.0)	0.71 $\pm$ 0.08 (17.5 $\pm$ 2.0)	0.031 $\pm$ 0.002 (0.80 $\pm$ 0.05)	0.26 $\pm$ 0.06 (6.5 $\pm$ 1.5)

## HOW TO ORDER:

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

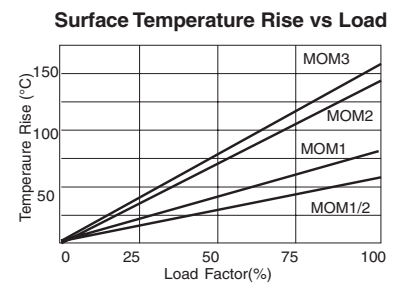
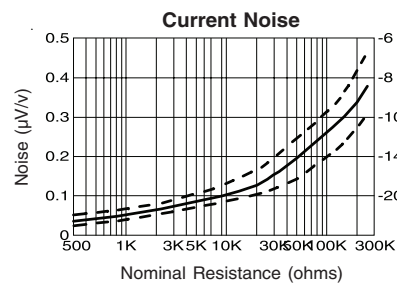
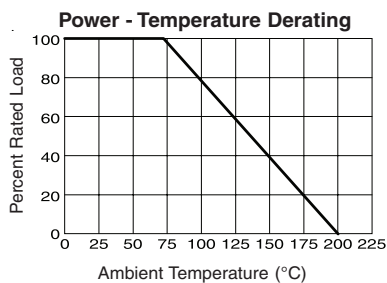
**IRC Type** \_\_\_\_\_

**Size** \_\_\_\_\_

**Resistance Value** \_\_\_\_\_  
3 digit range and  
1 digit multiplier

**Tolerance** \_\_\_\_\_  
J = 5%, F = 1%

**RoHS Compliance** \_\_\_\_\_  
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.

BI Technologies IRC Welwyn

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