

PRODUCT BULLETIN

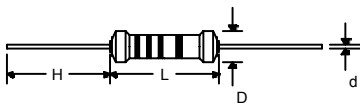


MOF-MOS SERIES

METAL OXIDE FILM RESISTORS

WILLOW TECHNOLOGIES LTD.
 SHAWLANDS COURT, NEWCHAPEL ROAD
 LINGFIELD, SURREY, RH7 6BL, ENGLAND
 Tel. + 44 (0) 1342 835234 Fax. + 44 (0) 1342 834306
 E-mail rob@willow.co.uk
 Website <http://www.willow.co.uk>

- 1/2 WATT THRU 10 WATT
- EXCELLENT STABILITY
- SOLVENT RESISTANT COATINGS
- LOW NOISE
- SMALL SIZE
- FLAME RETARDANT
- TOLERANCE $\pm 1\%$ & $\pm 5\%$
- TEMPERATURE COEFFICIENT
 ± 200 & ± 350 PPM/ $^{\circ}$ C



Dimensional Correlation

in.	mm
.023	.58
.032	0.8
.138	3.5
.177	4.5
.217	5.5
.335	8.5
.354	9.0
.472	12
.630	16
.984	25
1.260	32
1.614	41
2.087	53



DEDICATION TO EXCELLENCE

Dimensions

TYPE		DIMENSION (mm)			
MOF	MOS	L	D	d	H(MIN)
1/2 W	1 W	9 \pm 1	3.5 \pm 0.5	0.58 \pm 0.02	25
1 W	2 W	12 \pm 1	4.5 \pm 0.5	0.8 \pm 0.03	27
2 W	3 W	16 \pm 1	5.5 \pm 0.5	0.8 \pm 0.03	27
3 W	5 W	25 \pm 1	8.5 \pm 0.5	0.8 \pm 0.03	27
4 W	6 W	32 \pm 1	8.5 \pm 0.5	0.8 \pm 0.03	27
5 W	7 W	41 \pm 1	8.5 \pm 0.5	0.8 \pm 0.03	27
7 W	10 W	53 \pm 1	8.5 \pm 0.5	0.8 \pm 0.03	27

Operating Temperature Range is -55° C to $+155^{\circ}$ C

Specifications

TYPE		WORKING VOLTAGE	OVERLOAD VOLTAGE	RESISTANCE RANGE
MOF	MOS	Max.	Max.	$\pm 5\%$
1/2 W	1 W	300V	600V	0.1 1
1 W	2 W	350V	700V	0.1 1
2 W	3 W	350V	700V	0.1 1
3 W	5 W	500V	1000V	0.5 1
4 W	6 W	500V	1000V	10 1
5 W	7 W	750V	1000V	10 150
7 W	10 W	750V	1000V	10 150

NOTE: 1% TOLERANCE IS AVAILABLE IN MOF 1, 2 & 3 WATTS FROM 1 OHM THRU 1 MEG. OHM.
 1/2 - 3 W PARTS ARE COLOR CODED. 4 - 7 W ARE ALPHA NUMERIC
 TCR ± 200 PPM is also available. Consult factory.

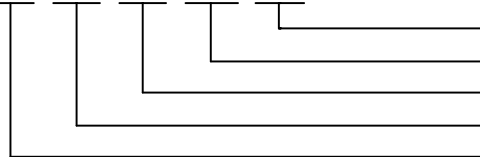
Temperature Coefficients

T200 = ± 200 PPM/ $^{\circ}$ C T350 = ± 350 PPM/ $^{\circ}$ C

How to Order

Sample Part Number

MOS 1W T350 100K $\pm 5\%$



Resistance Tolerance
 Resistance Value
 Temperature Coefficient
 Wattage
 Type

Characteristics

REQUIREMENTS	PERFORMANCE	TEST METHOD
		MIL-STD-202
Short Time Overload	$\Delta R_{max} \leq \pm(1\% + 0.05\Omega)$	—————
Resistance to Soldering Heat	$\Delta R_{max} \leq \pm(1\% + 0.05\Omega)$	METHOD 210
Temp. Cycling	$\Delta R_{max} \leq \pm(1\% + 0.05\Omega)$	METHOD 107
Load Life	$\Delta R_{max} \leq \pm 5\%$	METHOD 108
Dielectric Withstanding Voltage	$\Delta R_{max} \leq \pm(0.5\% + 0.05\Omega)$	METHOD 301
Moisture Resistance	$\Delta R_{max} \leq \pm 5\%$	METHOD 106
Insulation Resistance	$> 10^8 \text{ M}\Omega$	—————
Flammability	In accordance with UL 492.2.13 without producing a fire hazard.	

