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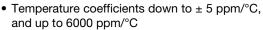
Vishay Mills

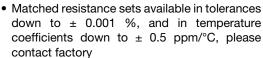
# Wirewound Resistor, Ultra Precision, Epoxy Molded, Radial Lead



#### **FEATURES**

- Resistance values up to 1  $M\Omega$
- Resistance tolerances down to ± 0.005 %
- Tighter tolerances and lower resistance values available, please contact factory







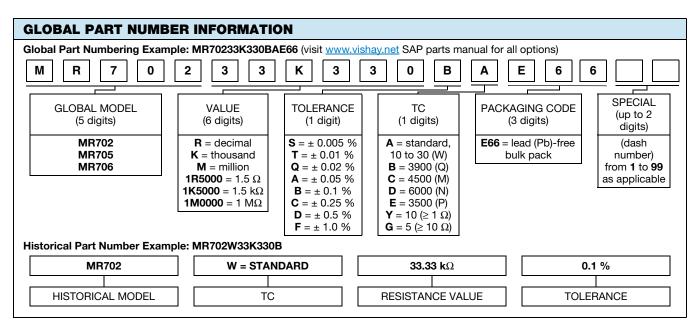
- Custom design capability available, please contact factory
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

STANDARD ELECTRICAL SPECIFICATIONS										
GLOBAL MODEL	POWER RATING W <sup>(1)</sup>	RESISTANCE RANGE $\Omega$ $\pm$ 0.1 %, $\pm$ 0.25 %, $\pm$ 0.5 %, $\pm$ 1 %	RESISTANCE RANGE $\Omega$ $\pm$ 0.05 %, $\pm$ 0.1 %, $\pm$ 0.25 %, $\pm$ 0.5 %, $\pm$ 1 %	RESISTANCE RANGE $Ω$ $± 0.01 \%, ± 0.05 \%,$ $± 0.1 \%, ± 0.25 \%,$ $± 0.5 \%, ± 1 \%$	RESISTANCE RANGE $\Omega$ ± 0.005 %, ± 0.01 %, ± 0.05 %, ± 0.1 %, ± 0.25 %, ± 0.5 %, ± 1 %	MAXIMUM WORKING VOLTAGE V (2)				
MR702	0.125	1 to 500K	5 to 500K	50 to 500K	1K to 500K	150				
MR705	0.300	1 to 500K	5 to 500K	50 to 500K	1K to 500K	150				
MR706	0.500	1 to 1M	5 to 1M	50 to 1M	1K to 1M	150				

#### Notes

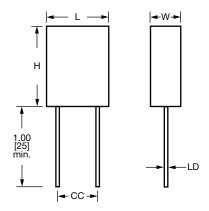
(1) Power rating is based on tolerance, please see derating chart

<sup>(2)</sup> The maximum working voltage is the highest voltage that can be applied to the resistor. Below this value, the maximum voltage that can continuously be applied is given by (P x R)<sup>1/2</sup>





## **DIMENSIONS** in inches [millimeters]



GLOBAL	DIMENSIONS in inches [millimeters]						
MODEL	L ± 0.010 [0.254]	H ± 0.005 [0.127]	W ± 0.010 [0.254]	LD ± 0.002 [0.051]	CC ± 0.015 [0.381]		
MR702	0.270 [6.86]	0.250 [6.35]	0.140 [3.56]	0.032 [0.813]	0.125 [3.18]		
MR705	0.300 [7.62]	0.320 [8.13]	0.102 [2.59]	0.025 [0.635]	0.150 [3.81]		
MR706	0.585 [14.86]	0.525 [13.34]	0.160 [4.06]	0.032 [0.813]	0.400 [10.16]		

#### **MATERIAL SPECIFICATIONS**

Element: nickel-chrome alloy, other materials available

depending on TC requirements

**Core:** molded epoxy **Encapsulant:** epoxy

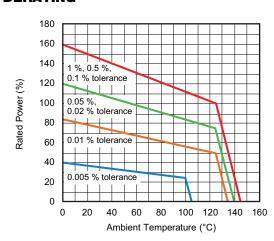
Standard Terminals: 100 % matte tinned copper

Part Marking: MILLS, model, value, tolerance, date code

Note

 Due to resistor size limitations some resistors will have minimal information marked on parts

### **DERATING**



TECHNICAL SPECIFICATIONS						
PARAMETER	UNIT	MR700 RESISTOR CHARACTERISTICS				
Temperature Coefficient	ppm/°C	$\pm$ 10 for > 100 $\Omega;$ $\pm$ 20 for 10 $\Omega$ to 100 $\Omega;$ $\pm$ 30 for < 10 $\Omega$				
Terminal Strength	lb	4.5				
Dielectric Withstanding Voltage	V <sub>AC</sub>	750				
Operating Temperature Range	°C	-55 to +145 (see "Derating" chart)				



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