MR700 Series



Vishay Mills

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



FEATURES

- Resistance values up to 1 MΩ
- Resistance tolerances down to ± 0.005 %
- Tighter tolerances and lower resistance values available, please contact factory
- Temperature coefficients down to ± 2 ppm/°C, and up to 6000 ppm/°C
- HALOGEN · Matched resistance sets available in tolerances FREE down to ± 0.001 %, and in temperature <u>GREEN</u> coefficients down to ± 0.5 ppm/°C, please (5-2008) contact factory



COMPLIANT

 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 ⁽¹⁾	RESISTANCE RANGE Ω ± 0.1 %, ± 0.25 %, ± 0.5 %, ± 1 %	$\begin{array}{c} \textbf{RESISTANCE RANGE} \\ \Omega \\ \pm \ 0.05 \ \%, \ \pm \ 0.1 \ \%, \\ \pm \ 0.25 \ \%, \ \pm \ 0.5 \ \%, \ \pm \ 1 \ \% \end{array}$	$\begin{array}{c} \textbf{RESISTANCE RANGE} \\ \Omega \\ \pm \ 0.01 \ \%, \pm \ 0.05 \ \%, \\ \pm \ 0.1 \ \%, \pm \ 0.25 \ \%, \\ \pm \ 0.5 \ \%, \pm \ 1 \ \% \end{array}$	$\begin{array}{c} \textbf{RESISTANCE RANGE} \\ \Omega \\ \pm \ 0.005 \ \%, \pm \ 0.01 \ \%, \\ \pm \ 0.05 \ \%, \pm \ 0.1 \ \%, \\ \pm \ 0.25 \ \%, \pm \ 0.5 \ \%, \pm \ 1 \ \% \end{array}$	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

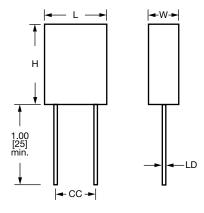
(2) The maximum working voltage is the highest voltage that can be applied to the resistor. Below this value, the maximum voltage that can continuously be applied is given by $(P \times R)^{1/2}$

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GLOBAL PART NUMBER INFORMATION								
G	Global Part Numbering example: MR70233K330BAE66 (visit www.vishay.net SAP parts manual for all options)							
	M R 7 0	2 3 3	К 3		3 0 B	AE	E 6	6
	GLOBAL MODEL (5 digits)	VALUE (6 digits)	TOLERANC (1 digit)	E	TC (1 digits)		GING CODE digits)	SPECIAL (up to 2 digits)
	MR702 MR705 MR706	R = decimal K = thousand M = million	$\begin{array}{l} {\bm S} = \pm \ 0.005 \ \% \\ {\bm T} = \pm \ 0.01 \ \% \\ {\bm Q} = \pm \ 0.02 \ \% \end{array}$		10 to 30 (W) b B = 3900 (Q)		ad (Pb)-free k pack	(dash number) from 1 to 99
		1R5000 = 1.5 Ω 1K5000 = 1.5 kΩ 1M0000 = 1 ΜΩ			C = 4500 (M) D = 6000 (N) E = 3500 (P) Y = 10 (≥ 1 Ω) G = 5 (≥ 10 Ω)			as applicable
I					J = 2 (≥ 100 Ώ)			
н	listorical Part Number exar	ple: MR702W33K33	30B					
MR702		W = STA	W = STANDARD		33.33 k Ω		0.1 %	
HISTORICAL MODEL		Т	TC		RESISTANCE VALUE		TOLERANCE	



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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

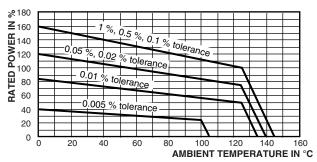
Encapsulant: epoxy

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 Ω to 100 $\Omega;$ \pm 30 for < 10 Ω			
Terminal Strength	lb	4.5			
Dielectric Withstanding Voltage	V _{AC}	750			
Operating Temperature Range	°C	-55 to +145 (see "Derating" chart)			



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