

www.vishay.com

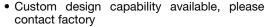
Vishay Mills

Wirewound Resistor, Ultra Precision, Epoxy Molded, Radial Lead



FEATURES

- Resistance values up to 1 M Ω
- 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
- Matched resistance sets available in tolerances down to ± 0.001 %, and in temperature coefficients down to ± 0.5 ppm/°C, please contact factory







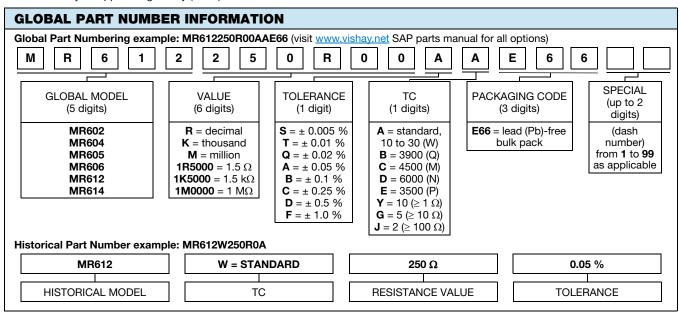


ROHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

STAND	STANDARD ELECTRICAL SPECIFICATIONS									
GLOBAL MODEL	POWER RATING W ⁽¹⁾	RESISTANCE RANGE Ω	RESISTANCE RANGE Ω			MAXIMUM WORKING				
		± 0.1 %, ± 0.25 %, ± 0.5 %, ± 1 %	± 0.05 %, ± 0.1 %, ± 0.25 %, ± 0.5 %, ± 1 %	± 0.01 %, ± 0.05 %, ± 0.1 %, ± 0.25 %, ± 0.5 %, ± 1 %	± 0.005 %, ± 0.01 %, ± 0.05 %, ± 0.1 %, ± 0.25 %, ± 0.5 %, ± 1 %	VOLTAGE V (2)				
MR602	0.250	1 to 600K	5 to 600K	50 to 600K	1K to 600K	150				
MR604	0.125	1 to 500K	5 to 500K	50 to 500K	1K to 500K	150				
MR605	0.125	1 to 500K	5 to 500K	50 to 500K	1K to 500K	150				
MR606	0.125	1 to 500K	5 to 500K	50 to 500K	1K to 500K	150				
MR612	0.400	1 to 800K	5 to 800K	50 to 800K	1K to 800K	300				
MR614	0.500	1 to 1M	5 to 1M	50 to 1M	1K to 1M	400				

Notes

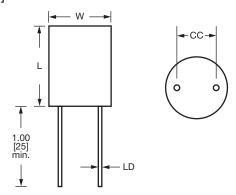
⁽²⁾ The maximum working voltage is the highest voltage that can be applied to the resistor. Below this value, the maximum voltage that can continuously be applied is given by (P x R)^{1/2}.



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



DIMENSIONS in inches [millimeters]



CLOBAL MODEL	DIMENSIONS in inches [millimeters]					
GLOBAL MODEL	L ± 0.025 [0.635]	W ± 0.005 [0.127]	LD ± 0.002 [0.051]	CC ± 0.015 [0.381]		
MR602	0.500 [12.70]	0.250 [6.35]	0.025 [0.635]	0.150 [3.81]		
MR604	0.312 [7.92]	0.250 [6.35]	0.025 [0.635]	0.150 [3.81]		
MR605	0.312 [7.92]	0.250 [6.35]	0.025 [0.635]	0.200 [5.08]		
MR606	0.375 [9.53]	0.250 [6.35]	0.025 [0.635]	0.150 [3.81]		
MR612	0.500 [12.70]	0.375 [9.53]	0.032 [0.813]	0.200 [5.08]		
MR614	0.500 [12.70]	0.500 [12.70]	0.032 [0.813] ⁽¹⁾	0.300 [7.62]		

Note

MATERIAL SPECIFICATIONS

Element: nickel-chrome alloy, other materials available

depending on TC requirements

Core: molded epoxy Encapsulant: epoxy

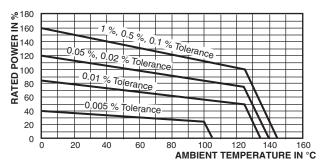
Standard Terminals: 100 % matte tinned copper

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	MR600 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)				

^{(1) 0.025&}quot; [0.635] available, this is called out by putting an "S" in the SPECIAL section of the part number.



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.