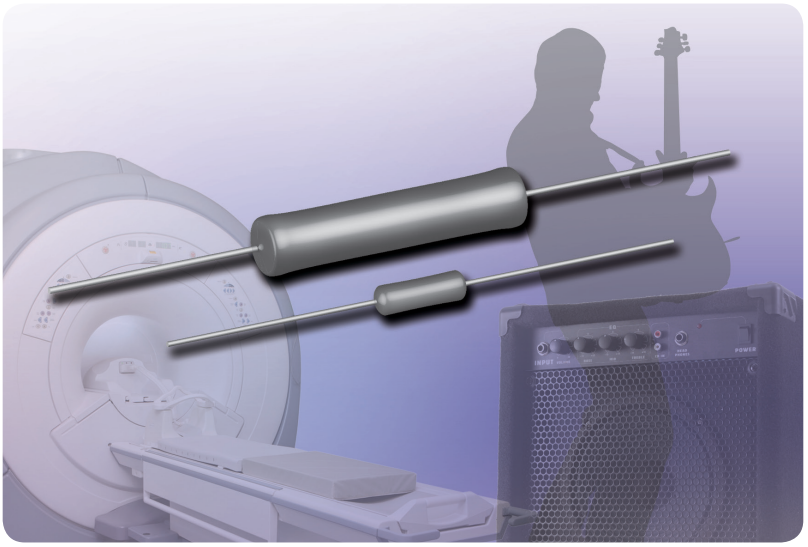
Ideal for Audio and Medical Imaging Equipment

Non-Magnetic, Non-Inductive, Axial-Leaded, Wirewound Resistors



KEY BENEFITS

- Non-magnetic and all welded constructions greatly enhance frequency response.
- High-temperature coating (> 350 °C)
- Combined with non-inductive Ayrton-Perry winding, the inductive reactance and signal loss are almost totally eliminated
- Ideal for the audio industry

APPLICATIONS

- Audio equipment
- Medical equipment

RESOURCES

- Datasheet: MRA - www.vishay.com/doc?31801
- Material categorization: For definitions please see www.vishay.com/doc?99912
- For technical questions contact ww2aresistors@vishay.com

Pb-free RoHS COMPLIANT e3 GREEN (5-2008)

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components

Ideal for Audio and Medical Imaging Equipment

Non-Magnetic, Non-Inductive, Axial-Leaded, Wirewound Resistors

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	HISTORICAL MODEL	POWER RATING (1) $P_{25\,°C}$ W CHARACTERISTIC U + 250 °C	POWER RATING (1) $P_{25\,°C}$ W CHARACTERISTIC V + 350 °C	TOLERANCE (2) %	RESISTANCE RANGE Ω	WEIGHT (typical) g
MRA-05	MRA05	4.0	5.0	1, 5, 10	0.01 to 15.0K	1.00
MRA-10	MRA10	7.0	10.0	1, 5, 10	0.05 to 35.0K	3.87
MRA-12	MRA12	10.0	12.0	1, 5, 10	0.05 to 85.0K	5.02

Notes

(1) Vishay Mills MRA models have two power ratings depending on the operation temperature and stability requirements.

(2) Other tolerances may be available, contact factory

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	MRA RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	± 30 for 10 Ω and above; ± 50 for 1.0 Ω to 9.9 Ω; ± 90 for 0.5 Ω to 0.99 Ω
Terminal Strength	lb	10 minimum
Dielectric Withstanding Voltage	V_{AC}	500 for MRA-05 and 1000 for MRA-10 and MRA-12
Operating Temperature Range	°C	Characteristic U = - 65 to + 250, Characteristic V = - 65 to + 350
Maximum Working Voltage	V	$(P \times R)^{1/2}$

GLOBAL PART NUMBER INFORMATION

Global Part Numbering example: MRA-1225R00JE12 (visit www.vishay.net Vishay Dale parts numbering manual for all options)

M	R	A	-	1	2	2	5	R	0	0	J	E	1	2		

GLOBAL MODEL (6 digits)	VALUE (5 digits)	TOLERANCE (1 digit)	PACKAGING CODE (3 digits)	SPECIAL (up to 2 digits)
(See Standard Electrical Specifications Global Model column for options)	**R** = Decimal **K** = Thousand **1R500** = 1.5 Ω **1K500** = 1.5 kΩ	**F** = ± 1.0 % **J** = ± 5.0 % **K** = ± 10.0 %	**E07** = Tape/reel (MRA-10, MRA-12) **E48** = Tape/reel (MRA-05) **E12** = Bulk, up to 100 pc boxes	(Dash Number) From **1** to **99** as applicable

Historical Part Number example: MRA12W25R0J

MRA12	W = STANDARD	25 Ω	5 %
HISTORICAL MODEL	TC	RESISTANCE VALUE	TOLERANCE