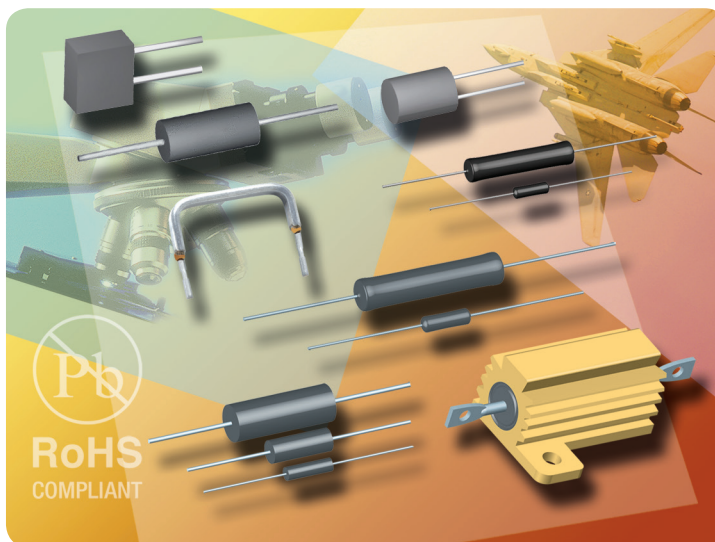




WIREWOUND RESISTORS

Resistive Products

An Overview of Precision Wirewound Resistors from Vishay Dale



KEY BENEFITS

- A wide range of power ratings (0.12 W to 250 W)
- A wide resistance range (0.004 Ω to 6 M Ω)
- Low/high-temperature performance (-65 $^{\circ}\text{C}$ to +350 $^{\circ}\text{C}$)
- All-welded construction
- Excellent overload capability
- High-temperature silicone coating or encapsulant
- Excellent stability in operation
- Non-inductive styles available

APPLICATIONS

- DC/DC converters
- AC/DC inverters
- High-voltage bleeders
- Dynamic braking
- Bias supply
- Motor speed controls
- Voltage divider networks
- Filament dropping
- Capacitor charging/discharging regulation
- Voltage dropping
- Electrical loads
- Crow-bar circuits
- Current shunts

RESOURCES

- For technical questions contact ww2aresistors@vishay.com
- Sales contacts: <http://www.vishay.com/doc?99914>



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

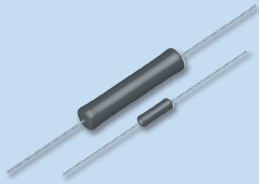

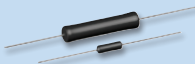
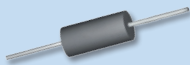
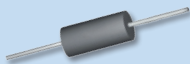




WIREWOUND RESISTORS

Resistive Products

Resistors - Wide Range of Power Ratings

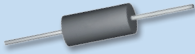

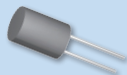
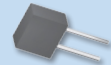
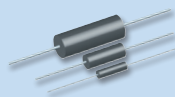

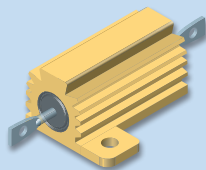
Model	Global Model	Historical Model	Wattage	Resistance Range	Tolerance	TCR (ppm/°C)
RS (Axial Leaded) 	RS1/8	RS-1/8	0.125	0.1 Ω - 950 Ω	± 0.05 % thru ± 10 %	± 90, ± 50, ± 20
	NS1/8	NS-1/8	0.125	0.1 Ω - 475 Ω		
	RS1/4	RS-1/4	0.4	0.1 Ω - 3.4 kΩ		
	NS1/4	NS-1/4	0.4	0.1 Ω - 1.7 kΩ		
	RS1/2	RS-1/2	0.75	0.1 Ω - 4.9 kΩ		
	NS1/2	NS-1/2	0.75	0.1 Ω - 2.45 kΩ		
	RS01A	RS-1A	1.0	0.1 Ω - 10.4 kΩ		
	NS01A	NS-1A	1.0	0.1 Ω - 5.2 kΩ		
	RS01M	RS-1M	1.0	0.1 Ω - 6.85 kΩ		
	NS01M	NS-1M	1.0	0.1 Ω - 3.42 kΩ		
	RS002	RS-2	4.0	0.1 Ω - 47.1 kΩ		
	NS002	NS-2	4.0	0.1 Ω - 23.5 kΩ		
	RS02M	RS-2M	3.0	0.1 Ω - 18.74 kΩ		
	NS02M	NS-2M	3.0	0.1 Ω - 9.37 kΩ		
	RS02B	RS-2B	3.0	0.1 Ω - 24.5 kΩ		
	NS02B	NS-2B	3.0	0.1 Ω - 12.2 kΩ		
	RS02C	RS-2C	2.5	0.1 Ω - 32.3 kΩ		
	NS02C	NS-2C	2.5	0.1 Ω - 16.1 kΩ		
	RS005	RS-5	5.0	0.1 Ω - 95.2 kΩ		
	NS005	NS-5	5.0	0.1 Ω - 47.6 kΩ		
RS007	RS-7	7.0	0.1 Ω - 154 kΩ			
NS007	NS-7	7.0	0.1 Ω - 77 kΩ			
RS010	RS-10	10	0.1 Ω - 273 kΩ			
NS010	NS-10	10	0.1 Ω - 136 kΩ			
G (Miniature Axial Leaded) 	G001...80	G-1-80	1.0	0.1 Ω - 3.4 kΩ	± 0.05 % thru ± 5 %	± 90, ± 50, ± 20
	GN001...80	GN-1-80	1.0	0.1 Ω - 1.7 kΩ		
	G002	G-2	1.5	0.1 Ω - 4.9 kΩ		
	GN002	GN-2	1.5	0.1 Ω - 2.45 kΩ		
	G003...80	G-3-80	2.0	0.1 Ω - 10.4 kΩ		
	GN003...80	GN-3-80	2.0	0.1 Ω - 5.2 kΩ		
	G005	G-5	4.0	0.1 Ω - 24.5 kΩ		
	GN005	GN-5	4.0	0.1 Ω - 12.2 kΩ		
	G05C	G-5C	5.0	0.1 Ω - 32.3 kΩ		
	GN05C	GN-5C	5.0	0.1 Ω - 16.1 kΩ		
	G010	G-10	7.0	0.1 Ω - 95.2 kΩ		
	GN010	GN-10	7.0	0.1 Ω - 47.6 kΩ		
	MRA (Axial Leaded) 	MRA-05	MRA05	4.0		
MRA-10		MRA10	7.0	0.05 Ω to 35 kΩ		
MRA-12		MRA12	10.0	0.05 Ω to 85 kΩ		
MR93 (Bobbin Style) 	MR9352	MR9352	0.75	10 Ω to 6 MΩ	± 0.01 % to ± 1 %	± 6000, ± 4500, ± 3900, ± 20, ± 10, ± 5, ± 2
	MR9353	MR9353	0.5	10 Ω to 3.8 MΩ		
	MR9354	MR9354	0.33	10 Ω to 2.5 MΩ		
	MR9355	MR9355	0.25	10 Ω to 1.2 MΩ		
	MR9356	MR9356	0.2	10 Ω to 1 MΩ		
	MR9357	MR9357	1.0	10 Ω to 6 MΩ		
	MR9358	MR9358	1.5	10 Ω to 6 MΩ		
	MR9359	MR9359	2.0	10 Ω to 6 MΩ		
	MR100 (Bobbin Style) 	MR101	MR101	0.12		
MR102		MR102	0.175	1 Ω to 750 kΩ		
MR103		MR103	0.2	1 Ω to 750 kΩ		
MR104		MR104	0.15	1 Ω to 500 kΩ		
MR105		MR105	0.2	1 Ω to 1 MΩ		
MR106		MR106	0.25	1 Ω to 1.2 MΩ		
MR107		MR107	0.33	1 Ω to 2.5 MΩ		
MR108		MR108	0.4	1 Ω to 3.8 MΩ		
MR110		MR110	0.5	1 Ω to 3.8 MΩ		
MR111		MR111	0.5	1 Ω to 3.8 MΩ		
MR112		MR112	0.75	1 Ω to 6 MΩ		
MR114		MR114	1.0	1 Ω to 6 MΩ		
MR115		MR115	1.5	1 Ω to 6 MΩ		
MR116		MR116	2.0	1 Ω to 6 MΩ		



WIREWOUND RESISTORS

Resistive Products

Resistors - Wide Range of Power Ratings

MR300 (Bobbin Style, High Stability) 	MR301	MR301	0.12	1 Ω to 400 kΩ	± 0.01 % to ± 1 %	± 6000, ± 4500, ± 3900, ± 20, ± 10, ± 5, ± 2
	MR302	MR302	0.175	1 Ω to 750 kΩ		
	MR303	MR303	0.2	1 Ω to 750 kΩ		
	MR304	MR304	0.15	1 Ω to 500 kΩ		
	MR305	MR305	0.2	1 Ω to 1 MΩ		
	MR306	MR306	0.25	1 Ω to 1.2 MΩ		
	MR307	MR307	0.33	1 Ω to 2.5 MΩ		
	MR308	MR308	0.4	1 Ω to 3.8 MΩ		
	MR310	MR310	0.5	1 Ω to 3.8 MΩ		
	MR311	MR311	0.5	1 Ω to 3.8 MΩ		
	MR312	MR312	0.75	1 Ω to 6 MΩ		
	MR314	MR314	1.0	1 Ω to 6 MΩ		
	MR315	MR315	1.5	1 Ω to 6 MΩ		
	MR316	MR316	2.0	1 Ω to 6 MΩ		
MR500 (Bobbin Style, Miniature) 	MR503	MR503	0.06	1 Ω to 75 kΩ	± 0.01 % to ± 1 %	± 6000, ± 4500, ± 3900, ± 20, ± 10, ± 5, ± 2
	MR508	MR508	0.08	1 Ω to 150 kΩ		
	MR510	MR510	0.10	1 Ω to 250 kΩ		
	MR512	MR512	0.10	1 Ω to 250 kΩ		
MR600 (Bobbin Style, Round Radial Leaded) 	MR602	MR602	0.25	1 Ω to 600 kΩ	± 0.01 % to ± 1 %	± 6000, ± 4500, ± 3900, ± 20, ± 10, ± 5, ± 2
	MR604	MR604	0.125	1 Ω to 500 kΩ		
	MR605	MR605	0.125	1 Ω to 500 kΩ		
	MR606	MR606	0.125	1 Ω to 500 kΩ		
	MR612	MR612	0.4	1 Ω to 800 kΩ		
	MR614	MR614	0.5	1 Ω to 1 MΩ		
MR700 (Bobbin Style, Square Radial Leaded) 	MR702	MR702	0.152	1 Ω to 500 kΩ	± 0.01 % to ± 1 %	± 6000, ± 4500, ± 3900, ± 20, ± 10, ± 5, ± 2
	MR703	MR703	0.25	1 Ω to 750 kΩ		
	MR705	MR705	0.3	1 Ω to 500 kΩ		
	MR706	MR706	0.5	1 Ω to 1 MΩ		
METAL STRIP RESISTORS						
LVR (Low Value, Axial Leaded) 	LVR01	LVR-1	1.0	0.01 Ω - 0.1 Ω	± 1 % thru ± 10 %	See datasheet: www.vishay.com/doc?30206
	LVR03	LVR-3	3.0	0.005 Ω - 0.2 Ω		
	LVR05	LVR-5	5.0	0.005 Ω - 0.3 Ω		
	LVR10	LVR-10	10	0.01 Ω - 0.8 Ω		
SR (Low Value, Radial Leaded) 	SR1	SR1	1.0	0.005 Ω - 0.03 Ω	± 1 % thru ± 5 %	See datasheet: www.vishay.com/doc?31067
	SR3	SR3	3.0	0.005 Ω - 0.05 Ω		
	SR5	SR5	5.0	0.004 Ω - 0.05 Ω		
CHASSIS-MOUNT RESISTORS						
RH (Aluminum House) 	RH005	RH-5	7.5	0.02 Ω - 24.5 kΩ	± 0.05 % thru ± 5 %	± 100, ± 50, ± 20
	NH005	NH-5	7.5	0.05 Ω - 12.75 kΩ		
	RH010	RH-10	12.5	0.01 Ω - 47.1 kΩ		
	NH010	NH-10	12.5	0.05 Ω - 23.5 kΩ		
	RH025	RH-25	25	0.01 Ω - 95.2 kΩ		
	NH025	NH-25	25	0.05 Ω - 47.6 kΩ		
	RH050	RH-50	50	0.01 Ω - 273 kΩ		
	NH050	NH-50	50	0.05 Ω - 136 kΩ		
	RH100	RH-100	100	0.05 Ω - 90 kΩ		
	NH100	NH-100	100	0.05 Ω - 37.5 kΩ		
	RH250	RH-250	250	0.05 Ω - 116 kΩ		
	NH250	NH-250	250	0.05 Ω - 48.5 kΩ		