



Metalohm Series

Wirewound Resistors

FEATURES

- Flameproof and inorganic
- Higher power rating due to heat sink capacity
- All welded construction
- Nonhygroscopic
- High surge construction

SPECIFICATIONS

Electrical

Wattage: Based on a 275°C "U" characteristic derating curve

Temperature coefficient:

- ≥18 ohm: 0 ±90ppm/°C
- 8 < 18 ohm: 0 ±50ppm/°C
- <8 ohm: 0 ±180ppm/°C (TC for some watt/ohm combinations may be lower)

Dielectric strength: Terminal to case, depends on terminal style (1500V min.)

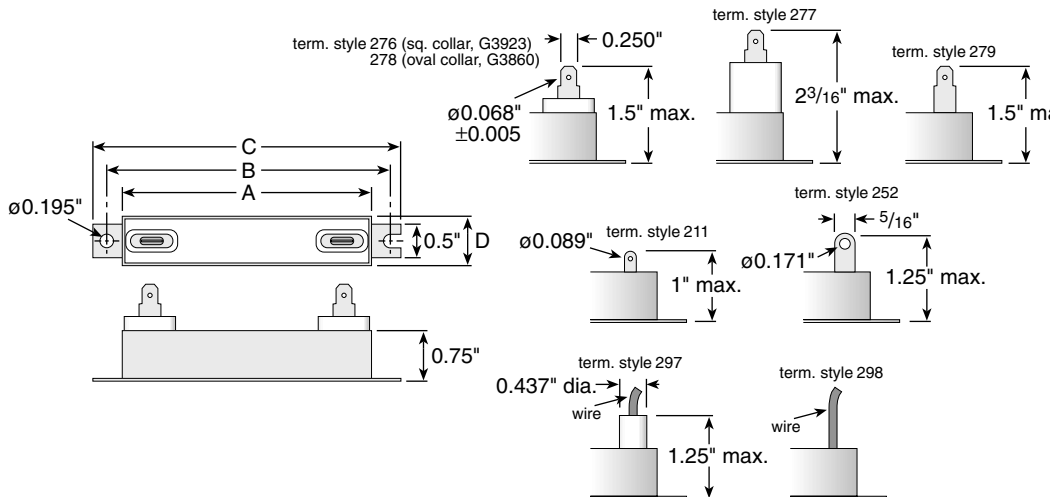
Creepage: term. style 277: 1.2"
term. styles 278/276: 0.4"/0.7"
term. styles 211/252/279: 0.15"

Termination Wires

- Stranded, available in any insulation rated 125°C or higher (may require term. style 297).
- Custom cut/stripped lengths
- Can be potted or pre-soldered to terminal styles 211 or 252
- Quick connect (fully or partially insulated), ring or spade terminations available

Dielectric Sleeves

- Steatite construction
- Style 276 meets UL/NEMA 2500V RMS for one minute requirement
- Available as terminal styles 276, 277, 278, 297



Style	Watts		Dimensions (inches)				Ohmic range**
	w/o heat sink	w/ heat sink*	A	B	C	D	
20/45M	20	45	1	1 ⁷ / ₁₆	1 ⁷ / ₈	3/4	0.05-6K
40/70M	40	70	2 ⁹ / ₁₆	3	3 ⁷ / ₁₆	3/4	1.0-25K
HV40-70M	40	70	2 ⁹ / ₁₆	3	3 ⁷ / ₁₆	7/8	1.0-25K
50/100M	50	100	3 ¹¹ / ₁₆	4 ¹ / ₈	4 ⁹ / ₁₆	3/4	1.5-47.5K
60/115M	60	115	5 ⁹ / ₁₆	6	6 ⁷ / ₁₆	3/4	2.5-81K

*Based on a 12"x12"x1/8" aluminum heat sink, using a thermal compound, in a 25°C ambient
**Standard winding ranges only listed, other values available; contact factory.

OPTIONS

- Noninductive versions (Aryton-Perry windings)
- Terminal sleeves to increase dielectric strength and maximize creepage distance
- Variety of terminal choices
- Potted or soldered wire leads including quick connect, ring, spade terminals
- Tapped models

DIELECTRIC STRENGTH

Terminal Style	Type 211	252, 279	276	278	277	297	298
20/45M	1500	N/A	N/A	N/A	N/A	2500V	2500V
40/70M	1500	1500	2500	2500	N/A	2500V	2500V
HV40/70M	N/A	N/A	N/A	N/A	4250	N/A	N/A
50/100M	1500	1500	2500	2500	N/A	2500V	2500V
60/115M	1500	1500	2500	2500	N/A	2500V	2500V

ORDERING INFORMATION

RoHS Compliant

40/70M N J 10R5K A E

<p>Style</p>	<p>Non-inductive (optional)</p>	<p>Tolerance</p> <p>K = 10%</p> <p>J = 5%</p> <p>H = 3%</p> <p>G = 2%</p> <p>F = 1%</p>	<p>Ohms</p> <p>1R000 = 1,000</p> <p>10R5K = 10,500</p>	<p>Terminal Type</p> <p>A = 211 E = 277</p> <p>B = 252 F = 278</p> <p>C = 279 G = 297</p> <p>D = 276 H = 298</p>
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