

## 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

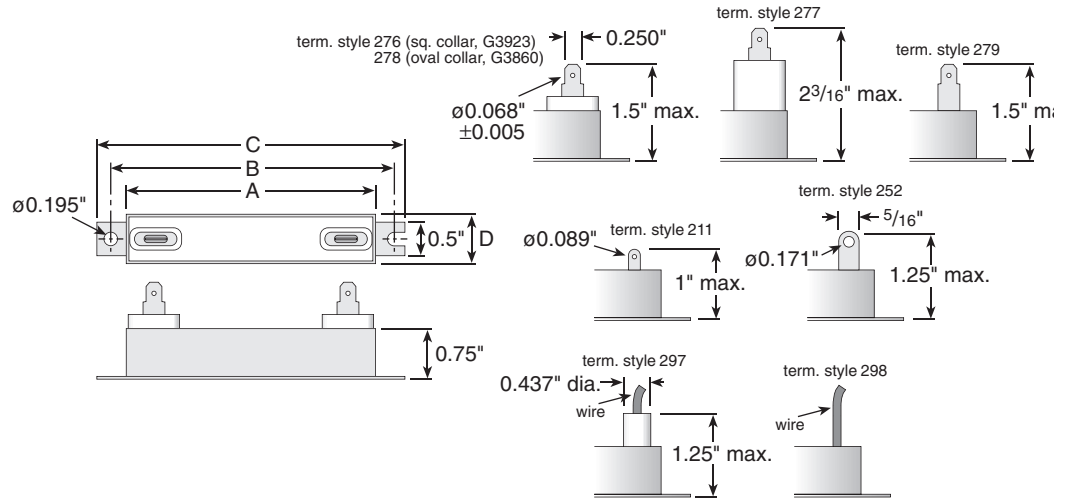
### Dielectric Sleeves

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



# Metalohm Series

## Wirewound Resistors



Style	Watts		Dimensions (inches)				Ohmic range**
	w/o heat sink	w/ heat sink*	A	B	C	D	
<b>20/45M</b>	20	45	1	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>8</sub>	3/4	0.05-6K
<b>40/70M</b>	40	70	2 <sup>9</sup> / <sub>16</sub>	3	3 <sup>7</sup> / <sub>16</sub>	3/4	1.0-25K
<b>HV40-70M</b>	40	70	2 <sup>9</sup> / <sub>16</sub>	3	3 <sup>7</sup> / <sub>16</sub>	7/8	1.0-25K
<b>50/100M</b>	50	100	3 <sup>11</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>8</sub>	4 <sup>9</sup> / <sub>16</sub>	3/4	1.5-47.5K
<b>60/115M</b>	60	115	5 <sup>9</sup> / <sub>16</sub>	6	6 <sup>7</sup> / <sub>16</sub>	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
<b>20/45M</b>	1500	N/A	N/A	N/A	N/A	2500V	2500V
<b>40/70M</b>	1500	1500	2500	2500	N/A	2500V	2500V
<b>HV40/70M</b>	N/A	N/A	N/A	N/A	4250	N/A	N/A
<b>50/100M</b>	1500	1500	2500	2500	N/A	2500V	2500V
<b>60/115M</b>	1500	1500	2500	2500	N/A	2500V	2500V

## ORDERING INFORMATION

**40/70MN - J10R5K - 278**

Style	Non-inductive (optional)	Tolerance	Ohms	Terminal Type
		K = 10%	1R000 = 1,000	(see diagram)
		J = 5%	10R5K = 10,500	
		H = 3%		
		G = 2%		
		F = 1%		