

Features

- Lower-cost alternative to Carbon Comps and Wirewounds
- Flameproof – meets overload test of UL #1412
- Meets solvent test of Mil Standard 202, Method 215
- Cut and formed product is available on select sizes; contact factory for details
- Operating temperature range: -55°C to +155°C
- Coating meets UL 94V-0
- Higher or lower resistance values may be possible; contact factory
- RoHS compliant / lead-free available (RSF, RSMF)



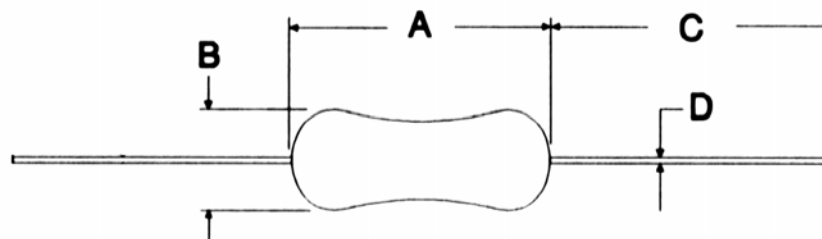
Electrical Specifications

Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage*	Maximum Pulse Voltage	Dielectric Withstanding Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance	
						1%	5%
RS 1/2	0.5W	250V	400V	600V	±200 ppm/°C	0.1Ω – 150KΩ	0.1Ω – 1MΩ
RS 1	1W	350V	600V	600V	±200 ppm/°C	0.1Ω – 100KΩ	0.1Ω – 1MΩ
RS 2	2W	350V	600V	600V	±200 ppm/°C	0.1Ω – 120KΩ	0.1Ω – 1MΩ
RS 3	3W	500V	800V	800V	±300 ppm/°C	10Ω – 1MΩ	1Ω – 1MΩ
RS 5	5W	750V	1,000V	800V	±300 ppm/°C	1Ω – 510KΩ	1Ω – 510KΩ
RSM 1/2	0.5W	250V	400V	350V	±200 ppm/°C	0.1Ω – 47KΩ	0.1Ω – 510KΩ
RSM 1	1W	350V	600V	500V	±200 ppm/°C	0.1Ω – 75KΩ	0.1Ω – 510KΩ
RSM 2	2W	350V	600V	500V	±200 ppm/°C	0.1Ω – 100KΩ	0.1Ω – 510KΩ
RSM 3	3W	500V	800V	600V	±200 ppm/°C	0.1Ω – 118KΩ	0.1Ω – 510KΩ
RSM 5	5W	750V	1,000V	1,000V	±300 ppm/°C	1Ω – 510KΩ	1Ω – 510KΩ

* Lesser of \sqrt{PR} or maximum working voltage.

How to Order

RS		1/2	0.47	5%	R			
SEI Type		Code	Nominal Resistance		Tolerance	Packaging		
Type	Description	Code	Tolerance	Values	SEI Types	Pkg Qty	Description	Code
RS	EIA Standard	1/2	1%	E96	5%	RSM 1/2	Tape	R
RSM	Mini	1	5%	E24				
RSF	Standard RoHS	2			RS 1, RSM 2	2,000		
RSMF	Mini RoHS	3			RS 2, RSM 3	1,000		
		5			RS 3, RSM 5	500		
					RS 1/2, RSM 1/2, RSM 1	2,000	Ammo	T
					RS 1, RS 2, RSM 2, RSM 3	1,000		
					RS 3, RSM 5	500		
					All	1,000	Bulk	A



Mechanical Specifications

Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Units
RS 1/2	0.35 ± 0.04	0.12 ± 0.02	1.10 ± 0.08	0.028 ± 0.002	inches
	9.0 ± 1.0	3.0 ± 0.5	28.0 ± 2.0	0.70 ± 0.05	mm
RS 1	0.43 ± 0.04	0.16 ± 0.02	1.10 ± 0.08	0.031 ± 0.002	inches
	11.0 ± 1.0	4.0 ± 0.5	28.0 ± 2.0	0.80 ± 0.05	mm
RS 2	0.59 ± 0.04	0.22 ± 0.04	1.38 ± 0.12	0.031 ± 0.002	inches
	15.0 ± 1.0	5.5 ± 1.0	35.0 ± 3.0	0.80 ± 0.05	mm
RS 3	0.71 ± 0.08	0.26 ± 0.06	1.38 ± 0.12	0.031 ± 0.002	inches
	17.5 ± 2.0	6.5 ± 1.5	35.0 ± 3.0	0.80 ± 0.05	mm
RS 5	0.96 ± 0.08	0.34 ± 0.06	1.38 ± 0.12	0.031 ± 0.002	inches
	24.5 ± 2.0	8.5 ± 1.5	35.0 ± 3.0	0.80 ± 0.05	mm
RSM 1/2	0.24 ± 0.02	0.09 ± 0.01	1.10 ± 0.08	0.024 ± 0.002	inches
	6.0 ± 0.5	2.3 ± 0.2	28.0 ± 2.0	0.60 ± 0.05	mm
RSM 1	0.35 ± 0.04	0.12 ± 0.02	1.10 ± 0.08	0.028 ± 0.002	inches
	9.0 ± 1.0	3.0 ± 0.5	28.0 ± 2.0	0.70 ± 0.05	mm
RSM 2	0.43 ± 0.04	0.16 ± 0.02	1.10 ± 0.08	0.031 ± 0.002	inches
	11.0 ± 1.0	4.0 ± 0.5	28.0 ± 2.0	0.80 ± 0.05	mm
RSM 3	0.59 ± 0.04	0.22 ± 0.04	1.38 ± 0.12	0.031 ± 0.002	inches
	15.0 ± 1.0	5.5 ± 1.0	35.0 ± 3.0	0.80 ± 0.05	mm
RSM 5	0.96 ± 0.08	0.34 ± 0.06	1.38 ± 0.12	0.031 ± 0.002	inches
	24.5 ± 2.0	8.5 ± 1.5	35.0 ± 3.0	0.80 ± 0.05	mm

Performance Characteristics

Test	Standard / Method	Requirement
Biased Humidity	MIL-STD 202, Method 103	± 1.5%
Resistance to Solder Heat	MIL-STD 202, Method 103	± 0.5%
Dielectric Withstanding Voltage	MIL-STD 202, Method 103	± 0.5%
Load Life	MIL-STD 202, Method 103	± 1.0%
Short Time Over Load	JISC 5202 5.5	± 0.5%
Terminal Strength	MIL-STD 202, Method 103	± 0.2%
Temperature Cycling	JESD22 Method JA-104	± 1.0%
Moisture Resistance	MIL-STD 202, Method 103	± 0.5%
Vibration	MIL-STD 202, Method 103	± 0.5%
Low Temperature Operation	MIL-STD 202, Method 103	± 0.5%