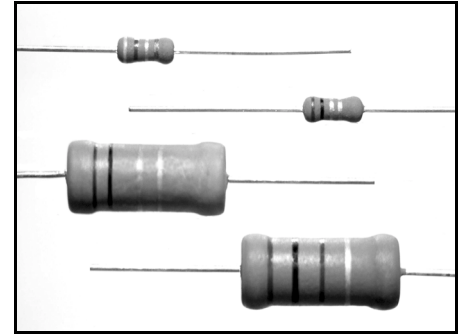


RS Series — Metal Oxide Resistors

Features

- Lower-cost alternative to Carbon Comps and Wirewounds
- Flameproof – meets overload test of UL #1412
- Meets solvent test of Mil Std 202, Method 215
- Coating meets UL 94V-0
- RSM style an ideal choice when size constraints apply
- Operating temperature range: -55°C to +200°C
- Temperature coefficient of resistance of ± 200 ppm



Electrical Specifications

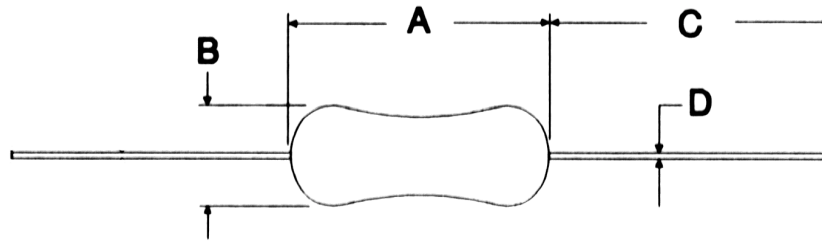
Type	Power Rating (Watts) @ 70°C	Maximum Working Voltage*	Maximum Pulse Voltage	Dielectric Withstanding Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance		
						1%	2%	5%
RS 1/2	0.5W	250	400	400	± 200 ppm/°C	0.1 Ω – 75K	0.1 Ω – 75K	0.1 Ω – 75K
RS 1	1W	350	600	500	± 200 ppm/°C	0.1 Ω – 100K	0.1 Ω – 100K	0.1 Ω – 120K
RS 2	2W	350	600	500	± 200 ppm/°C	0.1 Ω – 118K	0.1 Ω – 120K	0.1 Ω – 150K
RS 3	3W	500	800	800	± 200 ppm/°C	100 Ω – 10K	10 Ω – 10K	1 Ω – 150K
RS 5	5W	750	1000	800	± 200 ppm/°C	–	10 Ω – 10K	1 Ω – 180K
RSM 1/2	0.5W	250	400	400	± 200 ppm/°C	0.1 Ω – 46.4K	0.1 Ω – 47K	0.1 Ω – 47K
RSM 1	1W	350	600	500	± 200 ppm/°C	0.1 Ω – 75K	0.1 Ω – 75K	0.1 Ω – 75K
RSM 2	2W	350	600	500	± 200 ppm/°C	0.1 Ω – 100K	0.1 Ω – 100K	0.1 Ω – 100K
RSM 3	3W	500	800	500	± 200 ppm/°C	0.1 Ω – 118K	0.1 Ω – 120K	0.1 Ω – 120K
RSM 5	5W	750	1000	750	± 200 ppm/°C	100 Ω – 4.99K	10 Ω – 20K	1 Ω – 150K

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

How to Order

RS		1 / 2	0 . 4 7	5 %	R			
SEI Type		Code	Nominal Resistance	Tolerance	Packaging			
Type	Description	Code	Tolerance	Values	Code	Description	SEI Types	Pkg Qty
RS	EIA Std	1/2	1%	E96	R	Tape	RSM 1/2	5000
RSM	Mini	1	2%	E24	R	Tape	RS 1/2, RS 1, RSM 1, RSM 2	2500
		2	5%	E24	R	Tape	RS,2, RSM 3	1000
		3			R	Tape	RS 3, RSM 5	500
		5			T	Ammo	RS 1/2, RSM 1	2500
					T	Ammo	RSM 1/2	5000
					T	Ammo	RS 1, RSM 2	1000
					T	Ammo	RS 2, RS 3, RSM 3, RSM 5	500
					A	Bulk	All, except RS 5	1000
					A	Bulk	RS 5(Bulk only)	250

RS Series — Metal Oxide Resistors



Mechanical Specifications		inches mm		
Type	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter
RS 1/2	0.35 ± 0.04 9.0 ± 1.0	0.12 ± 0.02 3.0 ± 0.5	1.10 ± 0.08 28.0 ± 2.0	0.028 ± 0.002 0.70 ± 0.05
RS 1	0.43 ± 0.04 11.0 ± 1.0	0.16 ± 0.02 4.0 ± 0.5	1.10 ± 0.08 28.0 ± 2.0	0.031 ± 0.002 0.80 ± 0.05
RS 2	0.59 ± 0.04 15.0 ± 1.0	0.22 ± 0.04 5.5 ± 1.0	1.38 ± 0.12 35.0 ± 3.0	0.031 ± 0.002 0.80 ± 0.05
RS 3	0.98 ± 0.08 25 ± 2.0	0.34 ± 0.06 8.5 ± 1.5	1.38 ± 0.12 35.0 ± 3.0	0.031 ± 0.002 0.80 ± 0.05
RS 5	1.61 ± 0.08 41.0 ± 2.0	0.34 ± 0.06 8.5 ± 1.5	1.38 ± 0.12 35.0 ± 3.0	0.031 ± 0.002 0.80 ± 0.05
RSM 1/2	0.24 ± 0.02 6.0 ± 0.5	0.09 ± 0.01 2.3 ± 0.2	1.10 ± 0.08 28.0 ± 2.0	0.024 ± 0.002 0.60 ± 0.05
RSM 1	0.35 ± 0.04 9.0 ± 1.0	0.12 ± 0.02 3.0 ± 0.5	1.10 ± 0.08 28.0 ± 2.0	0.028 ± 0.002 0.70 ± 0.05
RSM 2	0.43 ± 0.04 11.0 ± 1.0	0.16 ± 0.02 4.0 ± 0.5	1.10 ± 0.08 28.0 ± 2.0	0.031 ± 0.002 0.80 ± 0.05
RSM 3	0.59 ± 0.04 15.0 ± 1.0	0.22 ± 0.04 5.5 ± 1.0	1.38 ± 0.12 35.0 ± 3.0	0.031 ± 0.002 0.80 ± 0.05
RSM 5	0.98 ± 0.08 25.0 ± 2.0	0.34 ± 0.06 8.5 ± 1.5	1.38 ± 0.12 35.0 ± 3.0	0.031 ± 0.002 0.80 ± 0.05

Performance Characteristics	
Test	Test Results
Moisture Resistance	± 1.5%
Thermal Shock	± 1.0%
Load Life @70°C – 1000 hrs.	± 5.0%
Shock and Vibration	± 1.0%
Resistance to Soldering Heat	± 1.0%
Terminal Strength	± 0.5%
Dielectric Withstanding Voltage	± 0.001%/V
Short Time Overload	± 0.75%
Low Temperature Operation	± 0.5%
Operating Temperature Range	-55°C to + 165°C