SM Series — Surface Mount Wirewound Resistors

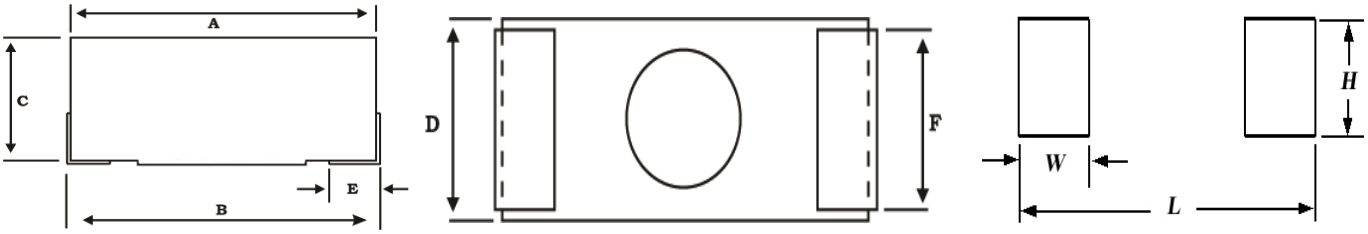
Features

- High temperature molded encapsulation
- Flex termination for absorbing thermal expansion
- All welded construction
- Non-inductive types available as NSM
- RoHS compliant/ lead-free

Electrical Specifications

Type	Power Rating (Watts) @ 70°C	Maximum Working Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance
				0.1%, 0.5%, 1% & 5%
SM 1	1W	25V	±100 ppm/°C ± 20 ppm/°C	0.01Ω – 10Ω* 10Ω – 1KΩ
SM 2	2W	50V	±100 ppm/°C ± 20 ppm/°C	0.01Ω – 10Ω* 10Ω – 2KΩ
SM 2A	2W	60V	±100 ppm/°C	0.005Ω – 0.976Ω*
SM 3	3W	100V	±100 ppm/°C ± 20 ppm/°C	0.01Ω – 10Ω* 10Ω – 3.01KΩ

* Zero ohm available on all sizes .



Mechanical Specifications

Type	A Body Length	B Total Length	C Body Height	D Body Width	E Termination Width	F Termination Length	W	H	L	Units
Tolerance	±0.015	±0.032	±0.015	±0.015	±0.015	±0.015	-	-	-	
	±0.4	±0.81	±0.4	±0.4	±0.4	±0.4	-	-	-	
SM 1	0.260 6.6	0.280 7.1	0.140 3.6	0.150 3.8	0.090 2.3	0.100 2.5	0.138 3.5	0.130 3.3	0.350 8.9	inches mm
SM 2	0.410 10.4	0.435 11.1	0.180 4.6	0.240 6.1	0.100 2.5	0.115 2.9	0.157 4.0	0.157 4.0	0.539 13.7	inches mm
SM 2A	0.475 12.1	0.500 12.7	0.140 3.6	0.305 7.8	0.110 2.8	0.115 2.9	0.161 4.1	0.157 4.0	0.571 14.5	inches mm
SM 3	0.629 16.0	0.708 18.0	0.256 6.5	0.276 7.0	0.110 2.8	0.115 2.9	0.197 5.0	0.165 4.2	0.850 21.6	inches mm

How to Order

SM — SEI Type

Type	Description
SM	Standard
NSM	Non-inductive

2 — Code

Code	Size
1	2815
2	4424
2A	5031
3	7128

1K — Nominal Resistance

1% — Tolerance

Tolerance
0.1%
0.5%
1%
5%

R — Packaging

Type	Pkg Qty	Description	Code
SM 1	1,500	13" Reel	R
SM 2	800	13" Reel	R
SM 2A	1,200	13" Reel	R
SM 3	750	13" Reel	R

Performance Characteristics	
Test	**Results**
Moisture Resistance	±1.0%
Thermal Shock	± 0.5%
Load Life @70°C – 1,000 hrs.	±1.0%
Shock and Vibration	±1.0%
Resistance to Soldering Heat	±1.0
Terminal Strength	±0.5%
Dielectric Withstanding Voltage	±0.001%/V
Short Time Overload	±0.5%
Low Temperature Operation	±0.5%
Operating Temperature Range	-55°C to +275°C