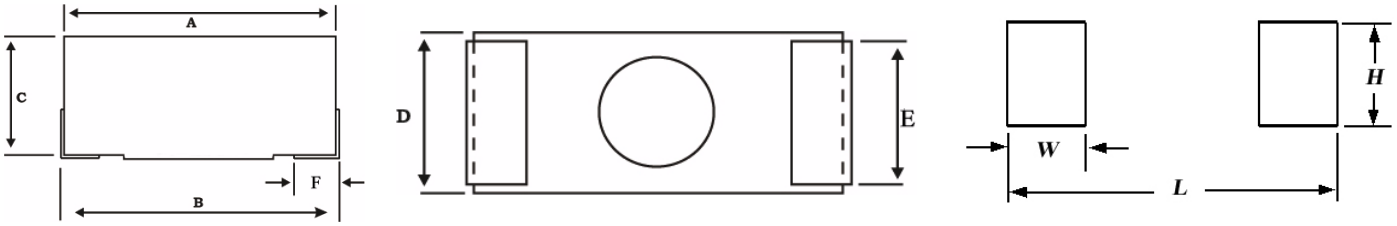
Features:

- 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 / Code	Power Rating (Watts) @ 70ºC	Maximum Working Voltage	Dielectric Withstanding Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance			
					0.1%	0.5%	1%	5%
SM2615	1W	25V	>500V	±100 ppm/ºC ± 20 ppm/ºC	1 - 10 10.2 - 1K	1 - 10 10.2 - 1K	0.01 - 10 10.2 - 1K	0.01 - 10 10.2 - 1K
SM4124	2W	50V	>500V	±100 ppm/ºC ± 20 ppm/ºC	1 - 10 10.2 - 2K	0.5 - 10 10.2 - 2K	0.01 - 10 10.2 - 2K	0.01 - 10 10.2 - 2K
SM4527	2W	60V	>500V	±75 ppm/ºC ±100 ppm/ºC ±20 ppm/ºC	-	0.01 - 0.06 0.1 - 10 10.2 - 2K	0.01 - 0.06 0.1 - 10 10.2 - 2K	0.01 - 0.06 0.1 - 10 10.2 - 2K
SMH4527	3W	60V	>500V	±75 ppm/ºC	-	0.01 - 0.06	0.01 - 0.06	0.01 - 0.06
SM6227	3W	100V	>500V	±100 ppm/ºC ± 20 ppm/ºC	0.5 - 10 10.2 - 3K	0.2 - 10 10.2 - 3K	0.01 - 10 10.2 - 3.01K	0.01 - 10 10.2 - 3K
SM8035	4W	100V	>500V	±100 ppm/ºC ± 20 ppm/ºC	-	-	0.1 - 9.76 10 - 2K	0.1 - 9.76 10 - 2K

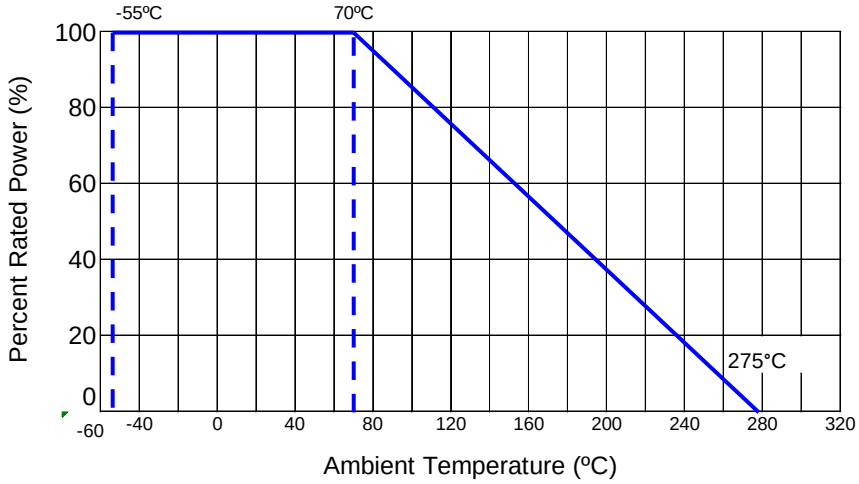
Zero ohm available on all sizes



Mechanical Specifications

Type / Code	A Body Length	B Total Length	C Body Height	D Body Width	E Termination Width	F Termination Length	W	H	L	Unit
SM2615	0.260 ± 0.015 6.60 ± 0.38	0.280 ± 0.032 7.11 ± 0.81	0.140 ± 0.015 3.56 ± 0.38	0.150 ± 0.015 3.81 ± 0.38	0.100 ± 0.015 2.54 ± 0.38	0.090 ± 0.015 2.29 ± 0.38	0.138 3.51	0.130 3.30	0.350 8.89	inches mm
SM4124	0.410 ± 0.015 10.41 ± 0.38	0.430 ± 0.032 10.92 ± 0.81	0.180 ± 0.015 4.57 ± 0.38	0.240 ± 0.015 6.10 ± 0.38	0.122 ± 0.015 3.10 ± 0.38	0.090 ± 0.015 2.29 ± 0.38	0.181 4.60	0.157 3.99	0.583 14.81	inches mm
SM4527 0.01Ω - 0.06Ω	0.455 ± 0.015 11.56 ± 0.38	0.475 ± 0.032 12.07 ± 0.81	0.150 ± 0.015 3.81 ± 0.38	0.270 ± 0.015 6.86 ± 0.38	0.122 ± 0.015 3.10 ± 0.38	0.105 ± 0.015 2.67 ± 0.38	0.169 4.29	0.157 3.99	0.587 14.91	inches mm
SM4527 0.1Ω - 2KΩ	0.455 ± 0.015 11.56 ± 0.38	0.475 ± 0.032 12.07 ± 0.81	0.180 ± 0.015 4.57 ± 0.38	0.270 ± 0.015 6.86 ± 0.38	0.122 ± 0.015 3.10 ± 0.38	0.105 ± 0.015 2.67 ± 0.38	0.169 4.29	0.157 3.99	0.587 14.91	inches mm
SMH4527	0.455 ± 0.015 11.56 ± 0.38	0.475 ± 0.032 12.07 ± 0.81	0.150 ± 0.015 3.81 ± 0.38	0.270 ± 0.015 6.86 ± 0.38	0.122 ± 0.015 3.10 ± 0.38	0.105 ± 0.015 2.67 ± 0.38	0.169 4.29	0.157 3.99	0.587 14.91	inches mm
SM6227	0.625 ± 0.015 15.88 ± 0.38	0.645 ± 0.032 16.38 ± 0.81	0.250 ± 0.015 6.35 ± 0.38	0.275 ± 0.015 6.99 ± 0.38	0.122 ± 0.015 3.10 ± 0.38	0.130 ± 0.015 3.30 ± 0.38	0.236 5.99	0.157 3.99	0.850 21.59	inches mm
SM8035	0.800 ± 0.015 20.32 ± 0.38	0.825 ± 0.032 20.96 ± 0.81	0.362 ± 0.015 9.19 ± 0.38	0.350 ± 0.015 8.89 ± 0.38	0.122 ± 0.015 3.10 ± 0.38	0.122 ± 0.015 3.10 ± 0.38	0.340 8.64	0.157 3.99	0.950 24.13	inches mm

Power Derating Curve:



Performance Characteristics

Test	Results
Moisture Resistance	±1%
Thermal Shock	±0.5%
Load Life @ 70ºC - 1,000 hrs.	±1%
Resistance to Soldering Heat	±1
Terminal Strength	±0.5%
Dielectric Withstanding Voltage	±0.001% / V
Short Time Overload	±0.2%

Operating Temperature Range: -55ºC to +275ºC

How to Order

1	2	3	4	5	6	7	8	9	10	11	12
S	**M**	**4**	**1**	**2**	**4**	**F**	**T**	**1**	**K**	**0**	**0**

Product Series	
SM	Standard
SMH	High Power
NSM	Non-inductive

Size	Power
2615	1W
4124	2W
4527	2W
(H)4527	3W
6227	3W
8035	4W

Tolerance	
Code	Tol
B	0.1%
D	0.5%
F	1%
J	5%
Z	Jumper

Packaging			
Code	Description	Size	Quantity
T	13" Reel Plastic Tape	2615	1,500
		4124	800
		4527, H4527	1,200
		6227	750
		8035	350

Resistance Value
Four characters with the multiplier used as the decimal holder. "L" used as multiplier of 10^{-3} for any value under 0.1 ohm.
0.01 ohm = 10L0 10 Kohm = 10K0 Zero ohm jumper = 0R00

Legacy Part Number (before January 3, 2011):

SEI Type	Code	Nominal Resistance	Tolerance	Packaging
SM	**2**	**1K**	**1%**	**R**

Type	Description
SM	Standard
SMH	High Power
NSM	Non-inductive

Code	Size
1	2615
2	4124
2A	4527
(H)3A	4527
3	6227
4	8035

Tolerance
0.1%
0.5%
1%
5%

Types	Qty	Description	Code
SM 1	1,500	13" reel plastic tape	R
SM 2	800		
SM 2A, 3A	1,200		
SM 3	750		
SM4	350		