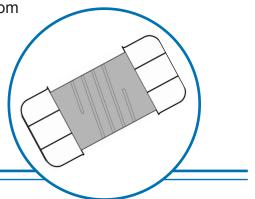
SMC SERIES

T electronics

METAL GLAZETM GENERAL PURPOSE SURFACE MOUNT, COMPLIANT TERMINAL

- •••••••
- Capped terminals provide mechanical compliance relief from board vs component TCE mismatch
- Applications Ideal for automotive and other harsh thermal applications
- Uncompromising MetalGlazeTM performance gives excellent surge performance
- · Lead-free, RoHS compliant
- · Use standard IRC 2512, 3610 solder pads



SMC SPECIFICATIONS:

Size Code	Industry Footprint	IRC Type	Maximum Power Rating	Working Voltage	Maximum Voltage	Resistance Range (Ω)	Tolerance (±%)	TCR (ppm/°C)	Product Category
	rootprint	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·	Voltage	voltage	0.1 to 0.99	1,2,5	100	Low range
F	2512	SMC-1	1W @ 70°C	350	650	1.0 to 2.0M 20 to 348K	1,2,5 0.5,1,2,5	50,100 50, 100	Standard Tight Tolerance
н	3610	SMC-2	2W @ 70°C	500	1000	0.1 to 0.99	1,2,5	100	Low Range
	3010	51410-2	200 @ 70 C	500	1000	1 to 2.0M	1,2,5	50,100	Standard

SMC PERFORMANCE CHARACTERISTICS

Characteristics	Maximum Change	Test Method
Temperature Coefficient	As specified	MIL-PRF-55342E Par 4.7.9 (-55°C +125°C)
Thermal Shock	±0.5% +0.01 ohm	MIL-PRF-55342E Par 4.7.3 (-65°C +150°C, 5 cycles)
Low Temperature Operation	±0.25% +0.01 ohm	MIL-PRF-55342E Par 4.7.4 (-65°C @ working voltage)
Short Time Overload	±0.25%+0.01ohm(R -100K Ohm</td <td></td>	
	±1%+0.01ohm(R -100K Ohm</td <td>MIL-PRF-55342E Par 4.7.5 (2.5 x SQRT (PXR) FOR 5 seconds)</td>	MIL-PRF-55342E Par 4.7.5 (2.5 x SQRT (PXR) FOR 5 seconds)
High Temperature Exposure	+0.5 +0.01 ohm	MIL-PRF-55342E Par 4.7.6 (+150°C for 100 hours)
Resistance to Bonding	±0.25% 0.01 ohm	MIL-PRF-55342E Par 4.7.7 (Reflow soldered to board at 260°C for 10 seconds)
Solderability	95% minimum coverage	MIL-STD-202, Method 208 (245°C for 5 seconds)
Moisture Resistance	±0.5% +0.01 ohm	MIL-PRF-55342E Par 4.7.8 (10 cycles, total 240 hours)
Life Test	±0.5% +0.01 ohm	MIL-PRF-55342E Par 4.7.10 (2000 hour at 70°C intermittent)
Terminal Adhesion Strength	±1% +0.01 ohm	
	no mechanical damage	1200 gram push from underside of mounted chip for 60 seconds
Resistance to Board Bending	±1% + 0.01 ohm	Chip mounted in center of 90mm long board, deflected 5mm so as to
		exert pull on chip contacts for 10 seconds

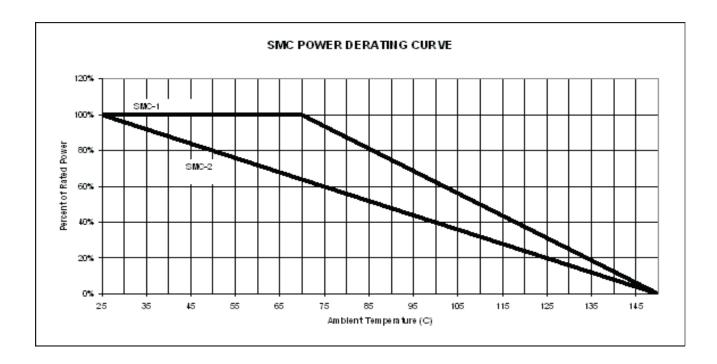




Product Dimensions

INDUSTRY FOOTPRINT	IRC TYPE			
		L	W	С
		(Product Length)	(Product Width = Diameter)	(Termination Width)
2512	SMC-1	0.250 ± 0.010	0.122 ± 0.003	0.080 ± 0.010
		(6.35 ± 0.25)	(3.10 ± 0.08)	(2.04 ± 0.25)
3610	SMC-2	0.367 ± 0.010	0.122 ± 0.003	0.080 ± 0.010
5010	51010-2	(9.32 ± 0.25)	(3.10 ± 0.08)	(2.04 ± 0.25)

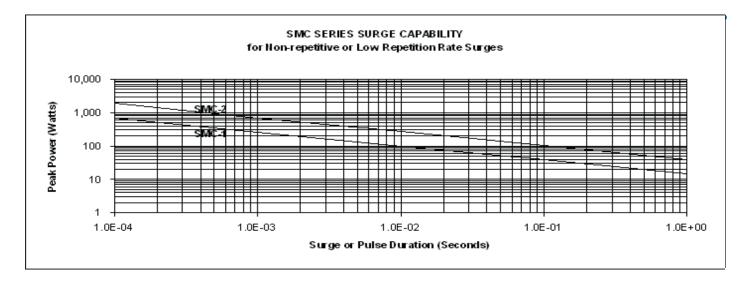
SMC Temperature vs Power Derating







SMC Surge Capability Data



Ordering Data

	HOW TO ORDER: Sample Part No.: SMC1 <u>100</u> 2003 FLF 13	3
(RC Type SMC1 or SMC 2)	-
((50 or 100 PPM) RESISTANCE VALUE (First 3 significant figures plus fourth digit multiplier)	
	Example: 2203 = 220 K Ohm 51R0 = 51 Ohm R200 = 0.2 Ohm TOLERACNE, LEAD FREE DESIGNATION	
	(C= ±0.25%, D= ±0.5%, F= ±1.0%, G=2.0%, J= ±5.0%) LF provides clear "Lead Free" Designation	
	PACKAGING CODE	

