High Power Dissipation SMT Chip Resistor



SC3 Series

- Tolerances to ±1%
- 3 watt rating at 70°C
- Resistance range from 1 to 100KΩ
- Standard Sn/Pb and matte tin (Pb-free) terminations available

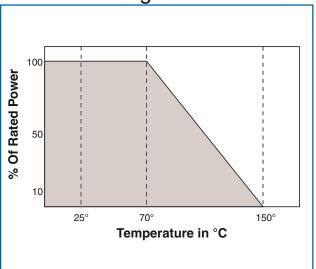


Electrical Data

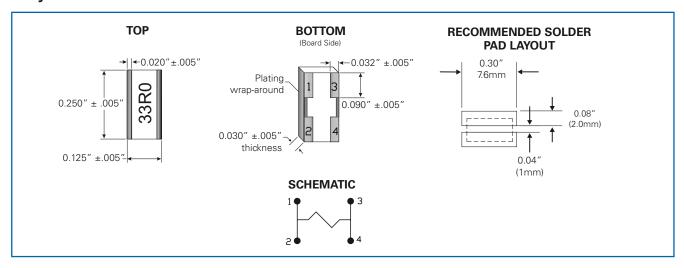
Resistance Range	1 Ω to 100K Ω	
Resistance Tolerance	±1%, ±2%, ±5%	
Temperature Coefficient	±100 ppm/°C	
Power Dissipation	3.0 Watts* @70°C	
Maximum Voltage Rating (not to exceed √P X R)	100 Volts	
Operating Temperature Range	-55°C to +150°C	
Termination	Leach-resistant nickel barrier under solder-plated wraparound	

*Note: With 1" square copper area as heat spreader.

Power Derating Chart



Physical Data



General Note

TT electronics reserves the right to make changes in product specification without notice or liability.

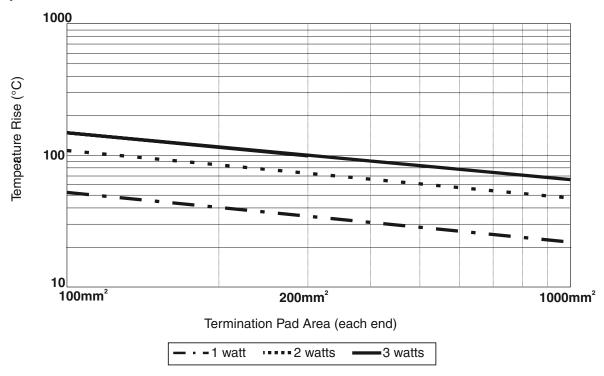
All information is subject to TT electronics' own data and is considered accurate at time of going to print.



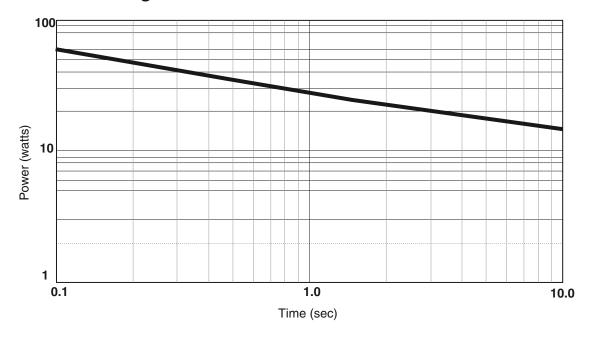
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Temperature Rise vs Pad Area



Pulse Power Rating





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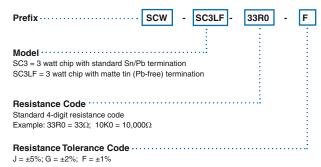




Environmental Data

Environmental Test	Test Method	Specification
Thermal Shock	MIL-STD-202 Method 107 Condition B, -65°C + 125°C	ΔR ±0.5% + 0.01Ω
Short-time Overload	2x rated power for 5 seconds	ΔR ±0.5% + 0.01Ω
High Temperature Exposure	100 Hours, 150°C	ΔR ±0.5% + 0.01Ω
Moisture Resistance	MIL-STD-202 Method 106	ΔR ±0.5% + 0.01Ω
Load Life	Rated Power @ 70°C for 1000 hours; 1.5 hours 'on', 0.5 hours 'off'	ΔR ±1.0% + 0.01Ω
Low Temperature Operation	1 hour @ -65°C followed by Rated power for 45 minutes	ΔR ±0.5% + 0.01Ω
Resistance To Solder Heat	MIL-STD-202 Method 210 260°C, 5 seconds	ΔR ±0.25% + 0.01Ω
Solderability	MIL-STD-202 Method 208 245°C, 5 seconds	95% coverage

Ordering Data



Packaging

Available in both bulk and tape & reel.

For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below

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M55342M06B26E7RS3 MC0603-511-JTW 742C083750JTR MCR01MZPF1202 MCR01MZPF1601 MCR01MZPF1800 MCR01MZPF6201

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