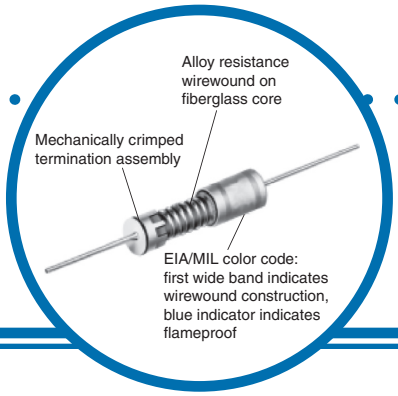
Low-Cost General Purpose Conformal Coated Wirewound Resistor

TT electronics

SPP Series

- Coated or uncoated units
- Positive high TC's upon request
- Color band standard identification
- Lower ranges available - contact factory
- Weldable and solderable magnetic leads



Electrical Data

IRC Type	SPP-1		SPP-2		SPP-3	
Resistance - Std.	0.1Ω to 1200Ω		0.1Ω to 2400Ω		0.1Ω to 2400Ω	
Tolerance - Std.	±5%, ±10%		±5%, ±10%		±5%, ±10%	
Power Rating	1 watt @ 85°C 3/4 watt @ 105°C 1/2 watt @ 125°C Derating to 0 @ 160°C		2 watt @ 85°C 1 watt @ 140°C --- ---		3 watt @ 85°C 2 watt @ 145°C 1 watt @ 190°C ---	
Load Life Stability	1 watt @ 85°C ± 10%		2 watt @ 85°C ± 10%		3 watt @ 85°C ± 10%	
Max. Continuous Working Voltage	$\sqrt{PR}$		$\sqrt{PR}$		$\sqrt{PR}$	
Min. Insulation Resistance Dry Wet	10,000 Meg 100 Meg		10,000 Meg 100 Meg		10,000 Meg 100 Meg	
Min. Dielectric Withstanding Volts (RMS)	600V		600V		600V	
Current Noise	Negligible		Negligible		Negligible	
Temperature Rise at Rated Load, 25°C Ambient	Approx. 150°C		Approx. 200°C		Approx. 225°C	
Temperature Coefficient	±600/°C 0.10Ω - 0.91Ω	±300/°C 1Ω - 1200Ω	±600/°C 0.10Ω - 0.91Ω	±300/°C 1Ω - 2400Ω	±600/°C 0.10Ω - 0.91Ω	±300/°C 1Ω - 2400Ω

Notes:
Unless specified otherwise, standard test centers are 1 ¾ inches.

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IRC
A subsidiary of
TT electronics plc

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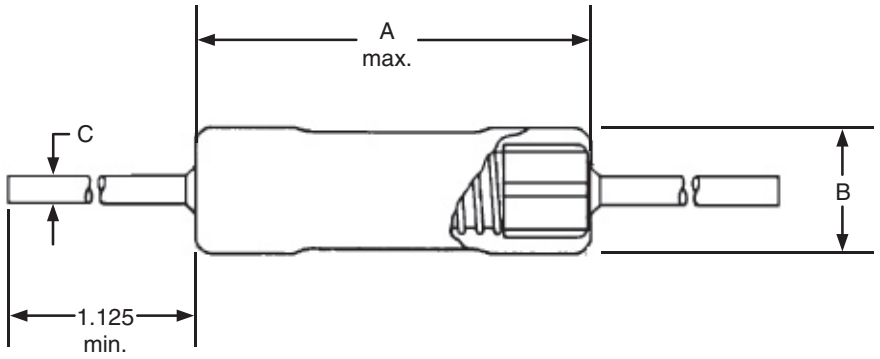
Environmental Data

Characteristics	Maximum Limits		
Temperature Coefficient (ppm/°C)	SPP-1	±600/°C ±300/°C	0.10Ω - 0.91Ω 1.0Ω - 1200Ω
	SPP-2	±600/°C ±300/°C	0.10Ω - 0.91Ω 1.0Ω - 2400Ω
	SPP-3	±600/°C ±600/°C	0.10Ω - 0.91Ω 1.0Ω - 2400Ω
Thermal Shock	±5%		
Low Shock	±5%		
Short Time Overload	±5%		
Commercial Short Time Overload	±5%		
Resistance to Solder Immersion	±3%		
Solderability	95% minimum coverage		
Moisture Resistance	±5%		
Life Test	±5%		
Test Method	EIA Specification RS-344		

Physical Data



Dimensions (Inches and (mm))			
IRC Type	A	B	C ± .002
SPP-1	0.400 max.	0.148 max.	0.032
SPP-2	0.570 max.	0.170 max.	0.032
SPP-3	0.570 max	0.170 max.	0.032

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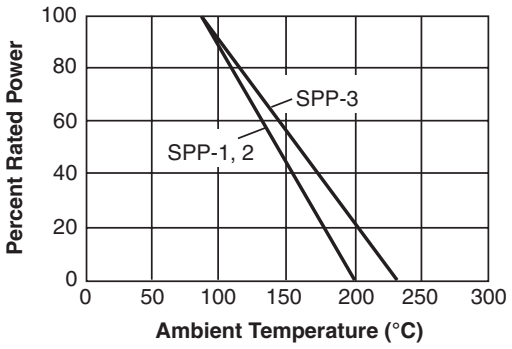
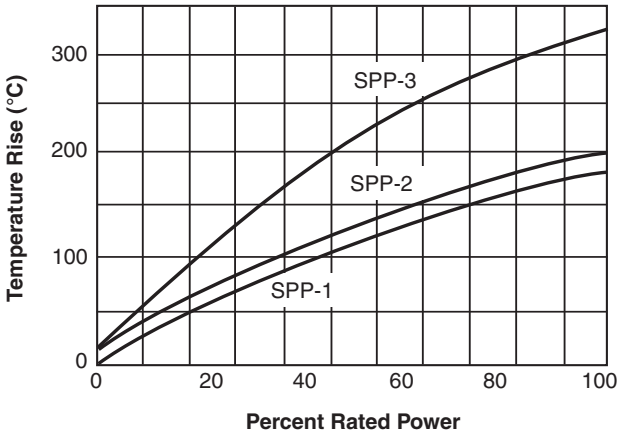
Power Derating Curve



Temperature Rise Curve



Ordering Data

Sample Part No. SPP | 1 | 1001 | J

IRC Type

Power
(See Electrical Data chart for other power ratings)

Resistance Value
Expressed in ohms
(Standard EIA/MIL values)

Tolerance
J = ±5%, K = ±10% standard