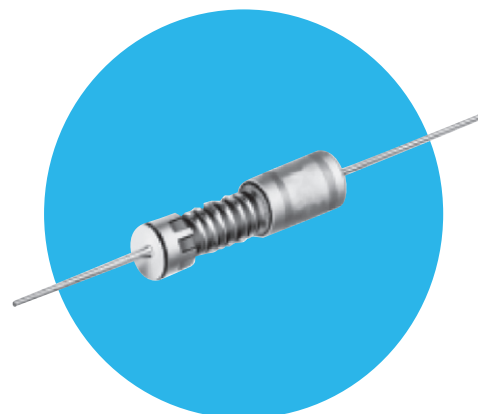


Fibre Core Conformal Coated Wirewound Resistor

SPP Series

- UL1412 recognised fusing *
- Coated or uncoated units
- Positive high TC's upon request
- Color band standard identification
- Lower ranges available - contact factory
- Weldable and solderable magnetic leads

* UL file number E234469



Electrical Data

	SPP-1		SPP-2		SPP-3	
IRC Type	SPP-1		SPP-2		SPP-3	
Resistance - Std.	0.1Ω to 1200Ω 0.1Ω to 1200Ω		0.1Ω to 2400Ω 0.1Ω to 2400Ω		0.1Ω to 2400Ω 0.1Ω to 2400Ω	
Recognised Range	1Ω to 470Ω 1Ω to 470Ω		1Ω to 470Ω 1Ω to 470Ω		---	
Tolerance - Std.	±5% (E24), ±10% (E12) ±5% (E24), ±10% (E12)		±5% (E24), ±10% (E12) ±5% (E24), ±10% (E12)		---	
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 2 watt @ 85°C 1 watt @ 140°C		3 watt @ 85°C 2 watt @ 145°C 1 watt @ 190°C 3 watt @ 85°C 2 watt @ 145°C 1 watt @ 190°C	
Load Life Stability	1/2 watt @ 125°C Derating to 0 @ 160°C		2 watt @ 85°C ± 10%		3 watt @ 85°C ± 10%	
Max. Continuous Working Voltage	√PR 1 watt @ 85°C ± 10%		√PR 2 watt @ 85°C ± 10%		√PR 3 watt @ 85°C	
Min. Insulation Resistance	Dry 10,000 Meg Wet 100 Meg		10,000 Meg 100 Meg		10,000 Meg 100 Meg	
Min. Dielectric Withstanding Volts (RMS)	√PR 600V		√PR 600V		√PR 600V	
Current Noise	Dry 10,000 Meg Wet 100 Meg		10,000 Meg Negligible 100 Meg		Negligible 10,000 Meg 100 Meg	
Temperature Rise at Rated Load, 25°C Ambient	Approx. 150°C 600V		Approx. 200°C 600V		Approx. 225°C 600V	
Temperature Coefficient (RMS)	±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% inches.

Negligible

Negligible

Negligible

General Note

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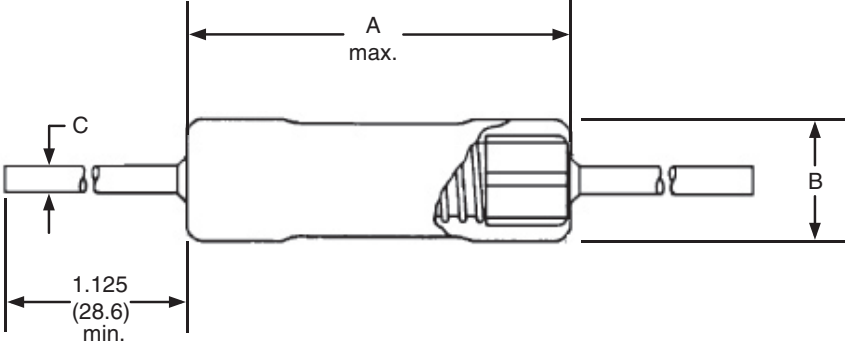
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

SPP Series

Environmental Data

Characteristics	Maximum Limits		
Temperature Coefficient (ppm/°C)	SPP-1	±600/°C	0.10Ω - 0.91Ω
		±300/°C	1.0Ω - 1200Ω
	SPP-2	±600/°C	0.10Ω - 0.91Ω
		±300/°C	1.0Ω - 2400Ω
	SPP-3	±600/°C	0.10Ω - 0.91Ω
		±600/°C	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		

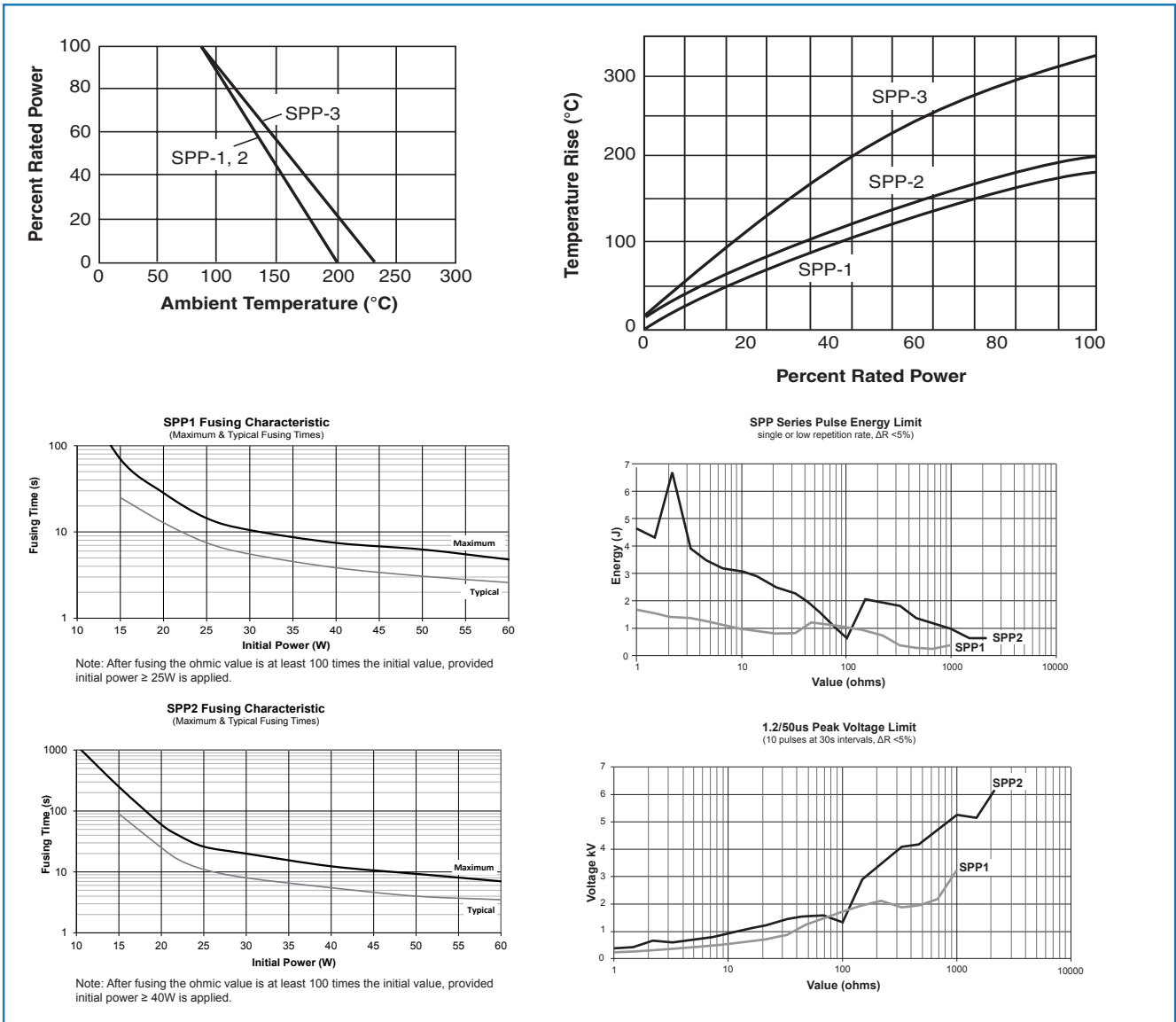
Physical Data

			
Dimensions (Inches and (mm))			
IRC Type	A	B	C ± .002(0.05)
SPP-1	0.400(10.2) max.	0.148(3.8) max.	0.032(0.8)
SPP-2	0.570(14.5) max.	0.170(4.3) max.	0.032(0.8)
SPP-3	0.570(14.5) max	0.170(4.3) max.	0.032(0.8)

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SPP Series



Ordering Procedure

Example: SPP1UL4700JLF (SPP1, UL recognised, 470 ohms $\pm 5\%$, Pb-free)

S	P	P	1	U	L	4	7	0	0	J	L	F		
1				2		3				4	5		6	

1	2	3	4	5	6
Type	UL Status	Value	Tolerance	Packing & Termination Finish	Custom Code
SPP1	UL = UL recognised	3 digits + multiplier	J = $\pm 5\%$	Omit for SnPb	Optional
SPP2	(SPP1 & SPP2 only, see Electrical Data for applicable values.)	R = ohms for values <100 ohms	K = $\pm 10\%$	LF = Pb-free	
SPP3				Standard packing is tape & reel, 4000/reel	

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