Resistors

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



Electronics

All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

l	Electrical Data	SPP-1	PP-1 SPP-2			SPP-3		
	IRC Туре	SPP	-1	SPP	-2	SP	P-3	
e - Std.	Resistance - Std.	1Ω to 1200Ω 0.1Ω to 1200Ω		0.1Ω to 2400Ω 0.1Ω to 2400Ω		0.1Ω to 2400Ω		
gnised F	allagecognised Range	Ω to 470 10 470 Ω		11Ω® to 0470Ω				
- Std.	Tolerance - Std.			±5% (E24), ±10% (E12) 5% (E24), ±10% (E12)				
- Stu.		1 watt @		2 watt @	85°C	3 watt (@ 85°C	
ting	Power Rating 1	watt @485 ^{tt} @ 105°C 1/2 watt @ 125°C		¹ 2 ^{watt} @ 85°C		2 watt @ 1453C 1 watt @ 190°C watt @ 8		
	3/4	watterating 5% 160°C		1 watt_@ 140°C		2 watt @ 14		
		watt @ 125°C watt @ 55°C ± 10% ng to 0 @ 160°C		2 watt @ 85°C ± 10%		3 watt @ 85°C 1 watt @ 1		
	Max. Continuous							
Stability	Working Voltage 1 wa	√PR @ 85°C + 10%		√PR 2 watt @ 85°C + 109		√PR %3 watt_@_85°(
Stability	Min. Insulation Dry	10,000 Meg		10,000 Meg		10,000 Meg		
inuous	Resistance Wet	100 N	100 Meg		100 Meg		100 Meg	
oltage	Min. Dielectric Withstanding Volts (RMS)	√PR 600V		√PR 600V		600V √PR		
ation	Dry Current Noise	0,000 Megligible		10,000 Meg		Negligible 10,000 M		
e	Wet	100 Meg		100 Meg		100 Me		
ctric	Temperature Rise at Rated Load, 25°C Ambient	Approx. 150°C 600V		Approx. 200°C 600V		Approx. 225°C 600V		
ling Volt	s (RMS) 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	
oise	I Notes: Unless specified otherwise, standard test centers				ligible	0.001 0.0112	Negligib	

General Note

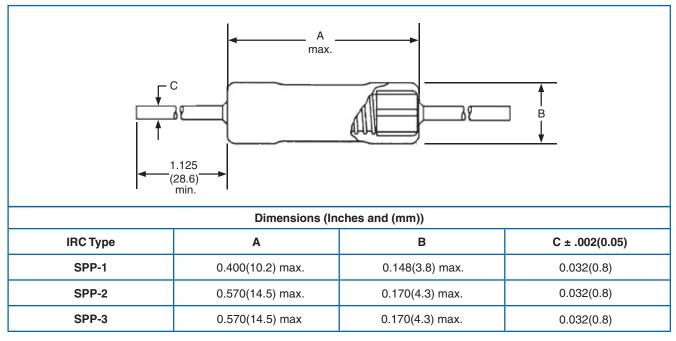
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.



Environmental Data

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



General Note

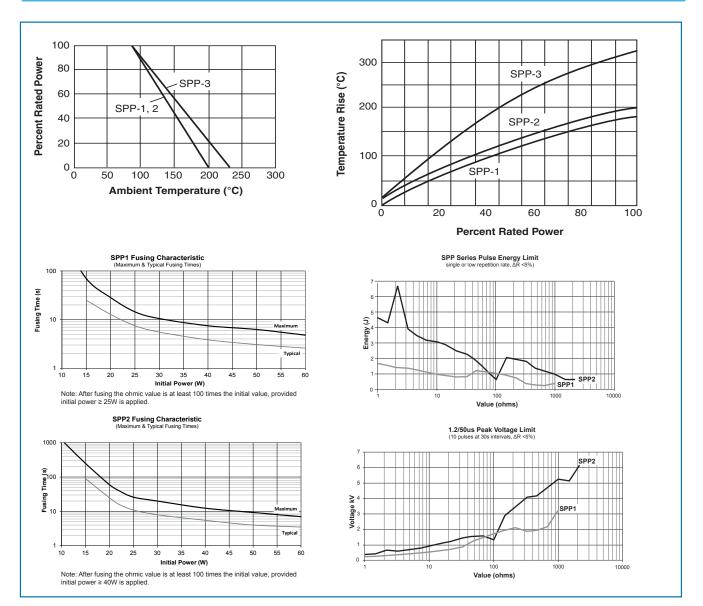
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BI Technologies IRC Welwyn

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SPP Series



Ordering Procedure

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

SPP1	UL	4 7 0 0	J	LF	
1	2	3	4	5	6

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

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