

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### **Resistors**

## **Fibre Core Conformal Coated Wirewound Resistor**

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#### **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

All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

### **Electrical Data**

IRC Type	SPP	-1	SPP	-2	SPP-3		
Resistance - Std.	0.1Ω to 1200Ω		0.1Ω to 2400Ω		0.1Ω to 2400Ω		
UL Recognised Range	L Recognised Range 1 Ω to 470 Ω		1 Ω to 470 Ω				
Tolerance - Std.	±5% (E24), ±10% (E12)						
Power Rating	1 watt @ 3/4 watt @ 1/2 watt @ Derating to 0	0 105°C 0 125°C	2 watt @ 1 watt @ 		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	√PR		√PR		√PR		
Min. Insulation Dry Resistance Wet	10,000 Meg 10,000 Meg 100 Meg 100 Meg		•	10,000 Meg 100 Meg			
Min. Dielectric Withstanding Volts (RMS)	600	V	600V 600V		0V		
Current Noise	Neglig	jible	Negligible Negligible		igible		
Temperature Rise at Rated Load, 25°C Ambient	Approx.	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.

BI Technologies IRC Welwyn

# Fibre Core Conformal Wirewound Resistor

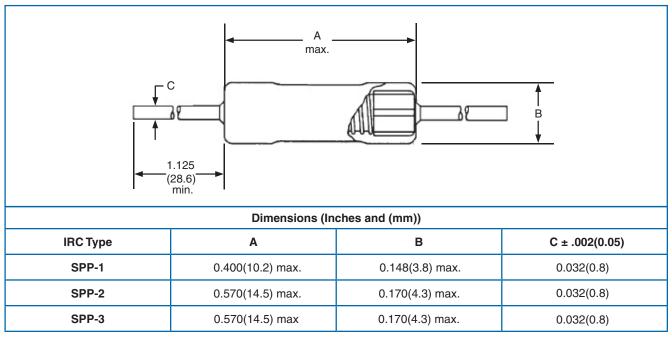


**SPP Series** 

#### **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 $\pm 600/^{\circ}$ C $0.10\Omega$ - $0.91\Omega$ $\pm 600/^{\circ}$ C $1.0\Omega$ - $2400\Omega$		
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		

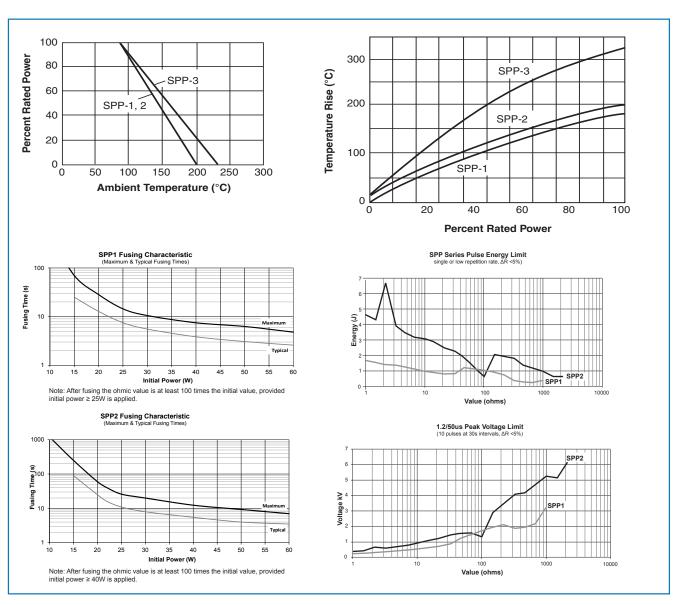
## Physical Data



## Fibre Core Conformal Wirewound Resistor



#### **SPP Series**



## **Ordering Procedure**

Example: SPP1UL4700JLF (SPP1, UL recognised, 470 ohms ±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
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	
SPP3	see Electrical Data for applicable values.)	<100 ohms		Standard packing is tape & reel, 4000/reel	