

Ultra High Power Thick Film (SP Series)



Features:

- High Power Rating up to 6W
- Surge Withstanding Capability
- AEC-Q200 Compliant
- Suitable for both wave & reflow soldering
- SP12 available in KIT packaging (E-24)
- Product design patent # : I566261



Application:

- EV Charging system
- Lighting converter/beacon
- Automotive
- Consumer electronics
- LCD back light
- Power supply/tools
- Medical
- Battery Chargers/BMS
- Telecom Equipment
- Digital Cameras
- Computer & Wi Fi modules
- Warning System & Security
- Relay
- Inverter
- Automation Controls
- Energy Management



Alternative for:

Bourns CHP
Vishay RCP

IATF 16949
ISO 14001



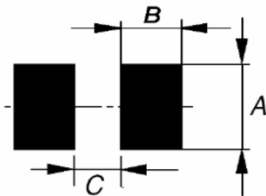
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Power Rate Comparison

Power (70°C)			
Size	Standard	HP	SP
0402	1/16W	1/10W	-
0603	1/10W	1/5W	-
0805	1/8W	1/3W	-
1206	1/4W	1/2W	-
2010	3/4W	1W	2W
2512	1W	2W	3W
2817	-	-	4W
4320	-	-	5W
4527	-	-	6W

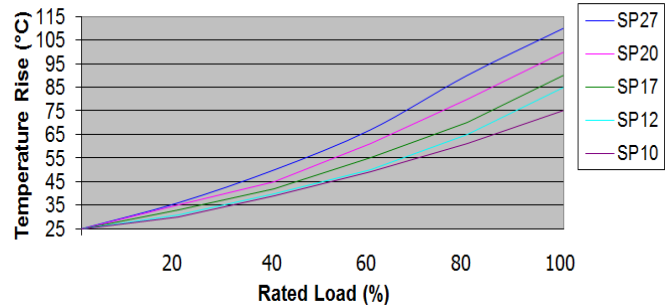
**SP series value range 1%, 5% 1R-10M



Recommended Solder Pad

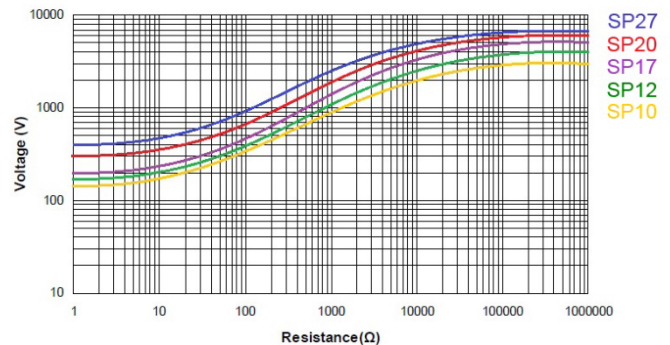
Size	Dimension(mm)		
	A	B	C
SP10	3.00	2.00	3.90
SP12	3.70	2.80	2.70
SP17	4.70	3.30	3.40
SP20	5.50	3.90	6.10
SP27	7.20	4.00	6.50

Heat Rise Chart



Surge Performance

SP Series 1.2/50us Lightning Surge



4 Layer PCB specification:

- 1) Outside 2 layers(Top and Bottom)with copper foil thickness at 2oz.
- 2) Inside 2 layers(middle layers)with copper foil thickness at 4oz.



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