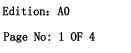
JK-SMD1210-500L PPTC DEVICES Part Number: Q/JKTD-6-500

A







Terminal pad materials : Tin-Plated Nickle-copper

Terminal pad solderability : Meets EIA specification RS 186-9E and ANSI/J-STD-002 Category 3.

Table1 :DIMENTION(Unit : mm)

D

В

Model N	Marking	А		В		С		D	Е
		Min.	Max.	Min.	Max.	Min.	Max	Min.	Min.
JK-SMD1210-500L	JP	3.0	3.43	2.35	2.8	0.5	1.4	0.25	0.1

Table2 :PERFORMANCE RATINGS:

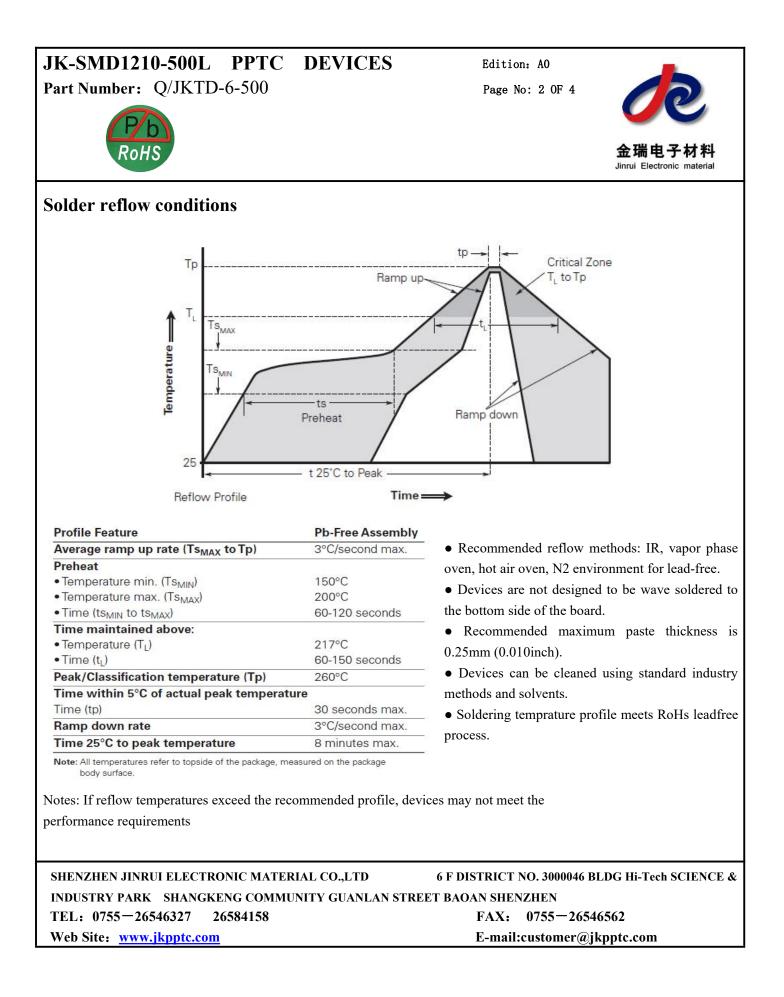
Model	V _{max} I _{max} (Vdc) (A)		I _{hold} @25°C (A)	I _{trip} @25°C (A)	P _d Typ (W)	Maximum Time To Trip		Resistance	
						Current	Time	Ri _{min}	R1 _{max}
						(A)	(Sec)	(Ω)	(Ω)
JK-SMD1210-500L	6.0	50.0	5.0	10.0	1.0	25.0	2.0	0.001	0.012

Table3:Test Conditons and Standards

Test Item	Test Conditons	Accept/Reject Criteria		
Initial Resistance	In still air, 25 °C	0.001-0.012Ω		
Holding Current	25°C, 5.0A, 60min	No Trip		
Time to Trip	25°C, 25.0A	≤2.0 S		
Trip endurance	6V, 50A, 60min	No arcing or burning		

Operating Temperature: -40°C TO 85°C Packaging: Bulk ,4000pcs per bag

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JK-SMD1210-500L PPTC DEVICES Part Number: Q/JKTD-6-500



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Tape and reel specifications (mm)

Coverning Specifications					
EIA 481-1					
W	8.0 ± 0.3				
\mathbf{P}_{0}	4.0 ± 0.10				
\mathbf{P}_1	4.0 ± 0.10				
P_2	2.0 ± 0.05				
A_0	2.82 ± 0.10				
\mathbf{B}_0	3.46 ± 0.10				
\mathbf{D}_0	1.55 ± 0.05				
F	3.50 ± 0.05				
E_1	1.75 ± 0.10				
Т	0.25 ± 0.10				
Leader min.	390				
Trailer min.	160				
Reel Dimensions					
А	178±1.0				
Ν	59±1				
\mathbf{W}_1	8.5+1.0/-0.2				
W2	12.0±1				

EIA Tape Component Dimentions Embossment ۲n Т Dn P_2 E1 Cover tape ١Ū 1A/ E_2 B. Kn Bo - T₁ EIA Reel Dimentions W2(measured at hub) N(hub dia.) A W1(measured at hub) Cover tape Carrier tape Embossed cavity SHENZHEN JINRUI ELECTRONIC MATERIAL CO.,LTD 6 F DISTRICT NO. 3000046 BLDG Hi-Tech SCIENCE &

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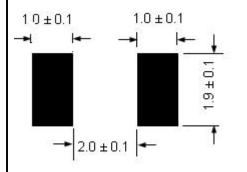
JK-SMD1210-500L PPTC DEVICES Part Number: Q/JKTD-6-500



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Recommended pad layout (mm)



Storage

The maximum ambient temperature shall not exceed $38 \,^{\circ}$ C. Storage temperatures higher than $38 \,^{\circ}$ C could result in the deformation of packaging materials. The maximum relative humidity recommended for storage is 60%. High humidity with high temperature can accelerate the oxidation of the solder plating on the termination and reduce the solderability of the components. Sealed plastic bags with desiccant shall be used to reduce the oxidation of the termination and shall only be opened prior to use. The products shall not be stored in areas where harmful gases containing sulfur or chlorine are present.

Warning

 \cdot Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.

• PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.

• Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.

- · Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of the PPTC.
- · Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.
- \cdot Contamination of the PPTC material with certain silicon based oils or some aggressive solvents can adversely impact the performance of the devices.PPTC SMD can be cleaned by standard methods.
- \cdot Requests that customers comply with our recommended solder pad layouts and recommended reflow profile. Improper board layouts or reflow profilecould negatively impact solderability performance of our devices.

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 RF2873

 000
 RF3060-000
 RF3288-000
 TR600-150Q-B-0.5-0.130
 RXE090
 5E4795/04-1502
 TRF250-080T-B-1.0-0.125
 SMD100-2

 NIS5452MT1TXG
 NIS5431MT1TXG
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 RS60RB-010
 RS60RB-020
 RS60RB-025
 RS60RB-050
 RS60RB-160
 RS60SB-110

 RS60SB-135
 SB250-030
 SB250-040
 SB250-200
 SB250-600
 R60-375
 SMD1812K125SF16V
 SMD1812K200SF8V
 SMD1812K014SF60V

 K60X005
 K250R120
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