JK-SMD1210-005 PPTC DEVICES

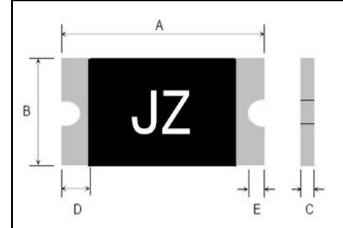
Part Number: Q/JKTD-30-005





Page No: 1 OF 3





Terminal pad materials: Tin-Plated Nickle-copper

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

Marking: JZ=1210(005)

Table1:DIMENTION(Unit:mm)

Madal	Marking -	A		В		С		D	Е
Model		Min.	Max.	Min.	Max.	Min.	Max	Min.	Min.
JK-SMD1210-005	JZ	3.00	3.43	2.35	2.80	0.60	1.25	0.15	0.10

Table2:PERFORMANCE RATINGS:

Model	V_{max}	I _{max}	I _{hold}	I _{trip}	P _d	Maxim Time To			Resistance	e
Model	(Vdc)	(A)	@25°C	@25°C	Typ (W)	Current	Time	Ri_{min}	Ri _{typ}	$R1_{max}$
			(A)	(A)	(w)	(A)	(Sec)	(Ω)	(Ω)	(Ω)
JK-SMD1210-005	30.0	100	0.05	0.15	0.6	0.25	1.50	2.800	25.000	50.00

Table3:Test Conditons and Standards

Item	Test Conditon	Standard		
Initial Resistance	25℃	$2.800{\sim}50.000\Omega$		
I_{H}	25℃, 0.05A, 60min	No Trip		
Ttrip	25℃, 0.25A	≤1.50s		
Trip endurance	30V, 100A, 60min	No arcing or burning		

Operating Temperature: -40°C TO 85°C

Packaging: Bulk, 4000pcs per bag

SHENZHEN JINRUI ELECTRONIC MATERIAL CO.,LTD

6 F DISTRICT NO. 3000046 BLDG Hi-Tech SCIENCE &

INDUSTRY PARK SHANGKENG COMMUNITY GUANLAN STREET BAOAN SHENZHEN

JK-SMD1210-005 PPTC DEVICES

Part Number: Q/JKTD-30-005

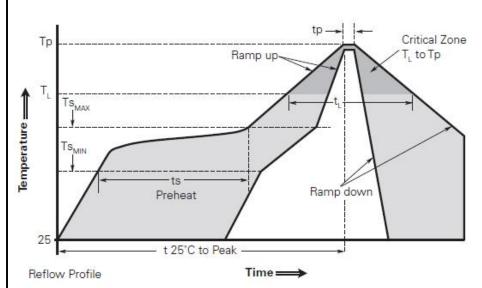


Edition: A0

Page No: 2 OF 3



Solder reflow conditions



Profile Feature	Pb-Free Assembly		
Average ramp up rate (Ts _{MAX} to Tp)	3°C/second max.		
Preheat			
 Temperature min. (Ts_{MIN}) 	150°C		
 Temperature max. (Ts_{MAX}) 	200°C		
 Time (ts_{MIN} to ts_{MAX}) 	60-120 seconds		
Time maintained above:			
• Temperature (T _L)	217°C		
• Time (t _L)	60-150 seconds		
Peak/Classification temperature (Tp)	260°C		
Time within 5°C of actual peak temperat	ure		
Time (tp)	30 seconds max.		
Ramp down rate	3°C/second max.		
Time 25°C to peak temperature	8 minutes max.		

Note: All temperatures refer to topside of the package, measured on the package body surface.

- Recommended reflow methods: IR, vapor phase oven, hot air oven, N2 environment for lead-free.
- Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25mm (0.010inch).
- Devices can be cleaned using standard industry methods and solvents.
- Soldering temprature profile meets RoHs leadfree process.

Notes: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements

SHENZHEN JINRUI ELECTRONIC MATERIAL CO.,LTD

6 F DISTRICT NO. 3000046 BLDG Hi-Tech SCIENCE &

INDUSTRY PARK SHANGKENG COMMUNITY GUANLAN STREET BAOAN SHENZHEN

JK-SMD1210-005 PPTC DEVICES

Part Number: Q/JKTD-30-005

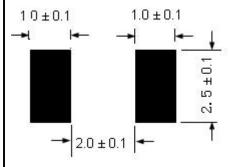


Edition: A0

Page No: 3 OF 3



Recommended pad layout (mm)



WARNING

- · 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.
- · 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.
- · 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.

SHENZHEN JINRUI ELECTRONIC MATERIAL CO.,LTD

6 F DISTRICT NO. 3000046 BLDG Hi-Tech SCIENCE &

INDUSTRY PARK SHANGKENG COMMUNITY GUANLAN STREET BAOAN SHENZHEN