JK-nSMD175 PPTC DEVICES Part Number: Q/JKTD-6-175

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Edition: AO 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 : JK=1206(175)

Table1 :DIMENTION(Unit : mm)

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В

Model	Montring	А]	В	С		D	Е
Model Marking	Min.	Max.	Min.	Max.	Min.	Max	Min.	Min.	
JK-nSMD175	JK	3.00	3.50	1.50	1.80	0.60	1.50	0.15	0.10

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Table2 :PERFORMANCE RATINGS:

Model	V _{max}	I _{max}	I _{hold}	$ \begin{array}{c c} I_{trip} & P_d \\ \hline @25^{\circ}C & Typ \\ \hline (\Lambda) & (W) \end{array} $	Maximum Time To Trip		Resistance			
Model	(Vdc)	(A)	@25°C (A)		Typ (W)	Current	Time	Ri _{min}	Ri _{typ}	$R1_{max}$
			(A)	(A)	(\mathbf{w})	(A)	(Sec)	(Ω)	(Ω)	(Ω)
JK-nSMD175	6.0	100	1.75	3.30	1.0	8.0	1.50	0.020		0.115

Table3:Test Conditons and Standards

Item	Test Conditon	Standard		
Initial Resistance	25°C	$0.020{\sim}0.115\Omega$		
I _H	25℃, 1.75A, 60min	No Trip		
T _{trip}	25°C, 8.0A	≤1.50s		
Trip endurance	6.0V, 100A, 1hr	No arcing or burning		

Operating Temperature: -40℃ TO 85℃ Packaging: Bulk ,3500pcs per bag

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JK-nSMD175 PPTC DEVICES Part Number: Q/JKTD-6-175



Solder reflow conditions



Profile Feature	Pb-Free Assembly 3°C/second max.			
Average ramp up rate (Ts _{MAX} to Tp)				
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.			

• 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.

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

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

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Edition: A0

Page No: 2 OF 3

金瑞电子材料 Jinrui Electronic material

JK-nSMD175 PPTC DEVICES Part Number: Q/JKTD-6-175



Edition: AO Page No: 3 OF 3



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.

 \cdot 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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