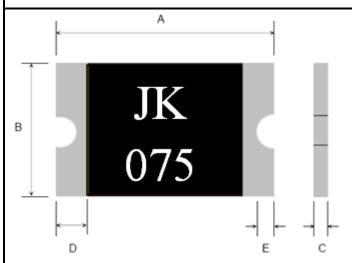
JK-mSMD075-24 PPTC DEVICES

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Terminal pad materials :Tin-Plated Nickle-copper

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

Marking: JK075=1812(075)

Table1:DIMENTION(Unit:mm)

Model	Marking	A		В		С		D	Е
		Min.	Max.	Min.	Max.	Min.	Max	Min.	Min
JK-mSMD075-24	JK075	4.37	4.73	3.07	3.41	0.50	1.20	0.30	0.25

Table2:PERFORMANCE RATINGS:

Model		I _{max} (A)	@25°C	I _{trip} @25℃ (A)	P _d Typ (W)	Maximum Time To Trip		Resistance		
						Current	Time	Ri_{min}	Ri _{typ}	R1 _{max}
						(A)	(Sec)	(Ω)	(Ω)	(Ω)
JK-mSMD075-24	24	100	0.75	1.50	0.8	8.0	0.20	0.090	0.150	0.450

Table3:Test Conditons and Standards

Item	Test Conditon	Standard		
Initial Resistance	25℃	$0.090{\sim}0.450\Omega$		
I_{H}	25℃, 0.75A, 60min	No Trip		
T_{trip}	25℃, 8.0A	≤0.20s		
Trip endurance	24V, 100A, 1hr	No arcing or burning		

Operating Temperature: -40°C TO 85°C

Packaging: Bulk ,2000 pcs per bag

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JK-mSMD075-24 PPTC DEVICES

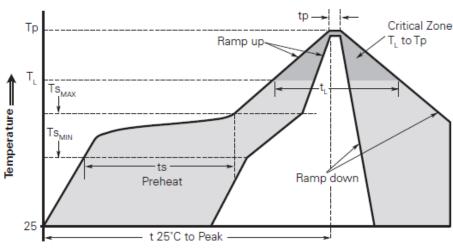
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Solder reflow conditions



Reflow Profile	Time →
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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 temperatu	re
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

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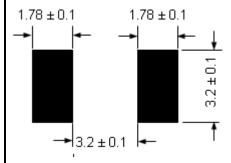
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Recommended pad layout (mm)



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.

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