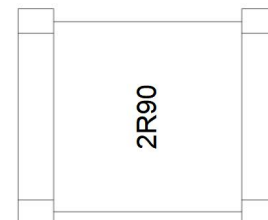
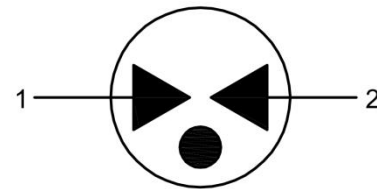


Features

- Features non radioactive
- SMD type
- Low capacitance ($\leq 1.0\text{pF}$)
- High insulation resistance
- Size 5.5X6.0
- Storage and operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Material: RoHS compliant



Schematic



Applications

- Communication industry
- Video surveillance
- Outdoor lighting igniter
- Signal line protection
- Signal line protection
- Civil circuit appliances

Marking: 2R90

Color: Blue

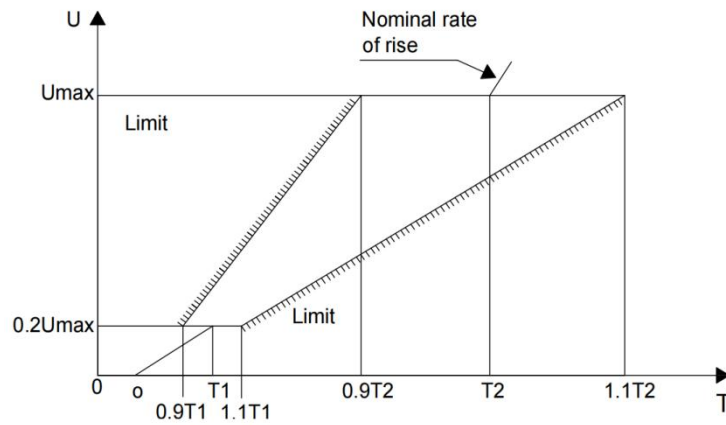
Electrical Characteristics

Part Number	DC Spark-over Voltage	Max. Impulse Breakdown Voltage	Discharge Current (8/20 μs)	AC Discharge Current	Impulse Life (10/1000 μs)	Minimum Insulation Resistance		Max. Capacitance 1MHz
	100V/S	1KV/ μs	10 times	50Hz, 1S	100A	Test Voltage DC(V)	(G Ω)	(pF)
	%	V	KA	A	Times			
LM-2R090SA-5	90V \pm 30%	600	10	10	100	50	1.0	1.0

Notes:

- 1). Terms in accordance with ITU-T K.12 and GB/T 9043-2008
- 2). At delivery AQL 0.65 level II , DIN ISO 2859
- 3). DC spark-over voltage $\pm 40\%$ after load

DC Breakdown Voltage



8/20μs, Test wave

10/700μs, Test wave

10/1000μs, Test wave

T₁=1.25T=8μs±20%

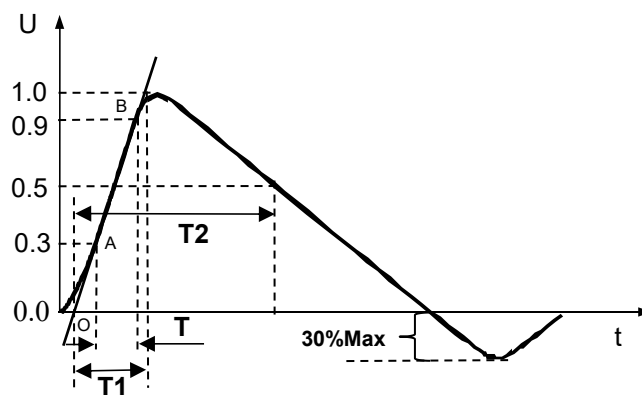
T₁=1.67T=10μs±20%

T₁=1.67T=10μs±20%

T₂=20μs±20%

T₂=700μs±20%

T₂=1000μs±20%

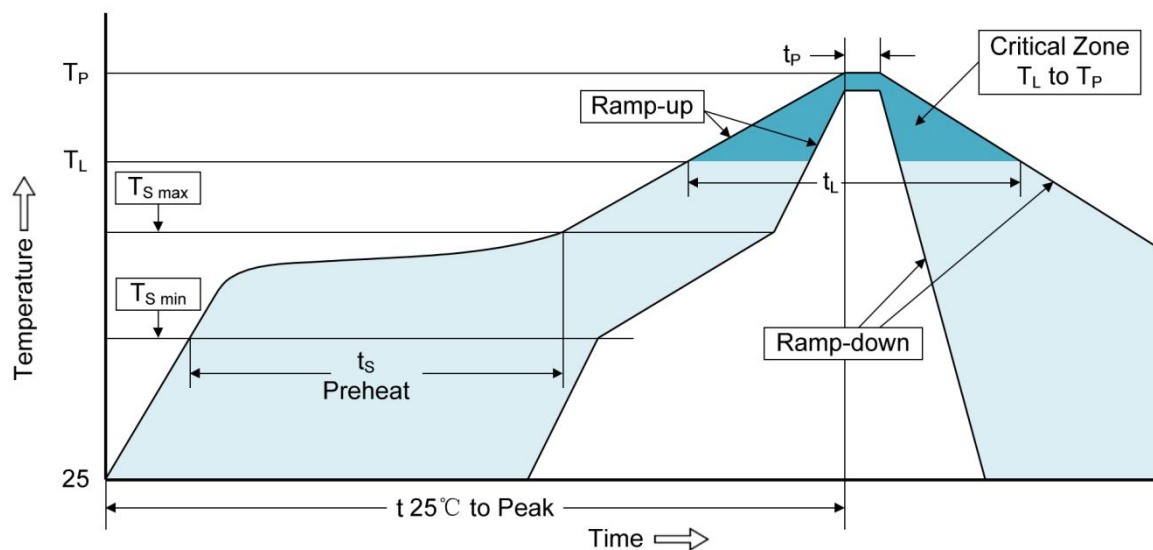


Recommended Soldering Conditions

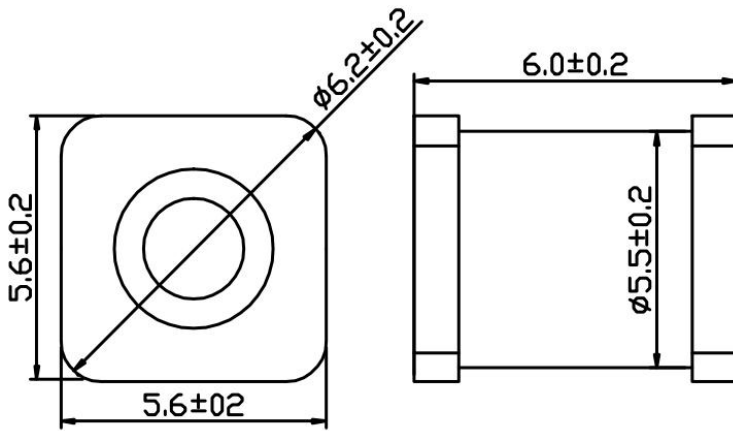
■ Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat -Temperature Min (T_S min) -Temperature Max (T_S max) -Time (min to max) (t_s)	150°C 200°C 60-180 seconds
T_S max to T_L -Ramp-up Rate	3°C/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	217°C 60-150 seconds
Peak Temperature (T_P)	260°C
Time within 5°C of actual Peak Temperature (t_p)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

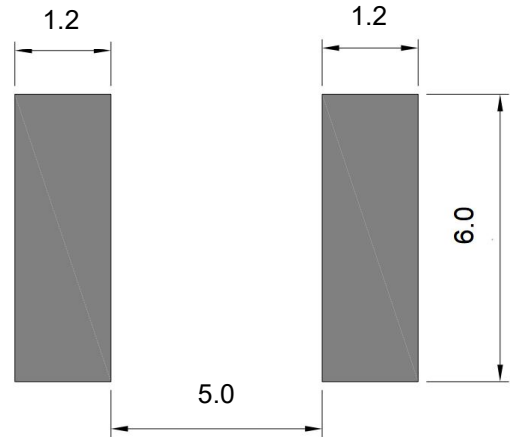
■ Reflow Soldering



Dimensions (unit: mm)

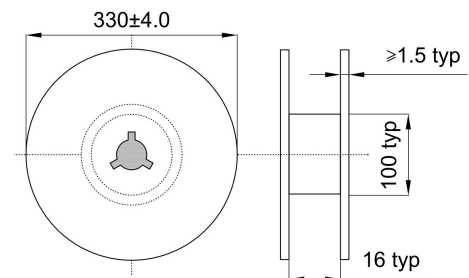


Tin-plated



Recommended Pad Size

Quantity: 900pcs/reel
Color: Dark Blue



NOTICE

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