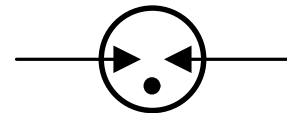


Features

- Stable breakdown voltage
- High insulation resistance
- High current rating
- Low capacitance ($\leq 0.5\text{pF}$)
- Stable performance over life
- Large absorbing transient current capability
- Fast response time
- RoHS compliant
- Standard Size: 3.2mm*2.5mm*2.5mm
- Meets MSL level 1, per J-STD-020
- Storage and operating temperature: $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$

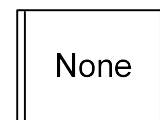
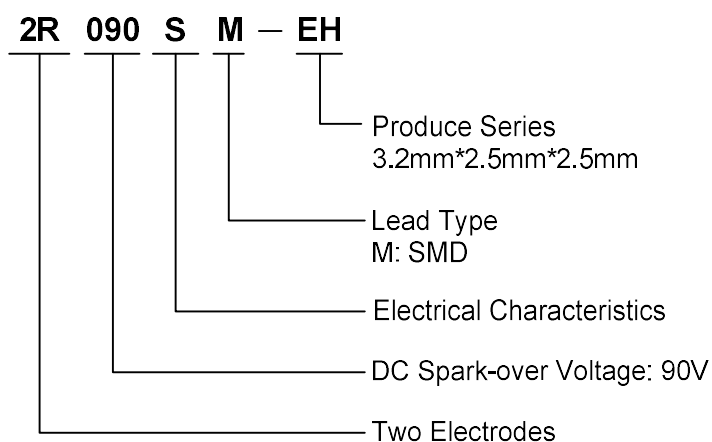
GDT Graphical Symbol



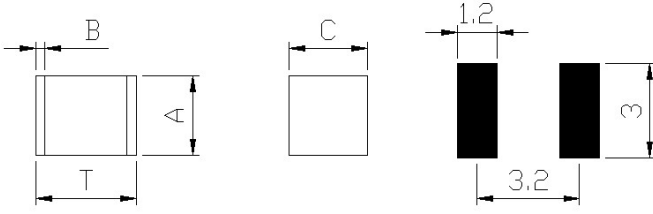
Applications

- Repeaters, Modems
- Subscriber protection
- Telephone Interface, Line cards
- Data communication equipment
- Line test equipment
- Branch exchange
- Subscriber protection
- Alarm system
- Tuner
- Antenna protection

Part Number Code and Marking



Dimensions

Recommended Pad Layout		Symbol	Dimensions(mm)
		T	3.2±0.3
		A	2.5±0.3
		B	0.3±0.1
		C	2.5±0.3

Electrical Characteristics (T_A=25°C)

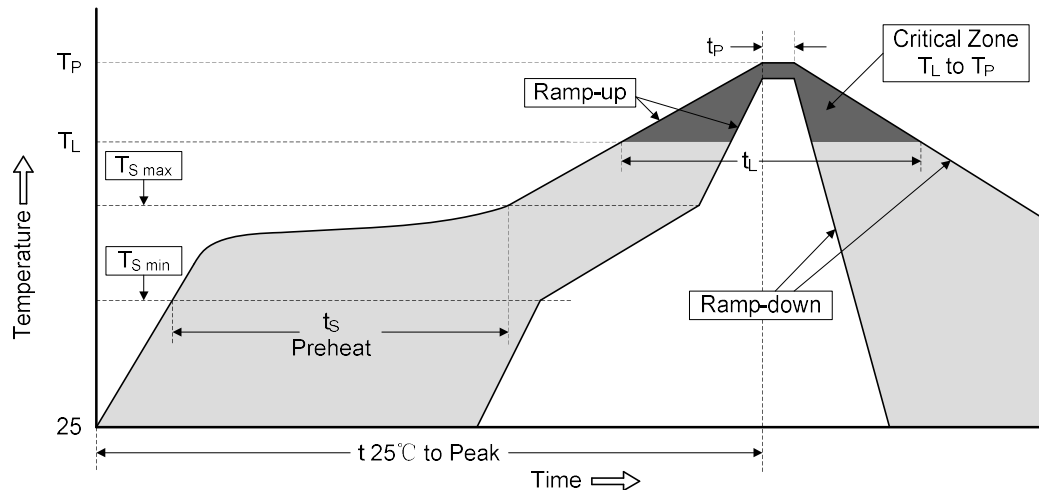
Part Number	Marking	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Minimum Insulation Resistance		Maximum Capacitance	Impulse Withstanding Voltage Capacity
		100V/s	1000V/μs	8/20μs, 10 times	Test Voltage	GΩ	1MHz	10/700μs, 10 times
2R090SM-EH	None	90V±30%	700V	1KA	50VDC	1	0.5pF	6kV
2R150SM-EH	None	150V±30%	750V	1KA	100VDC	1	0.5pF	6kV
2R200SM-EH	None	200V±30%	800V	1KA	100VDC	1	0.5pF	6kV
2R300SM-EH	None	300V±30%	850V	1KA	100VDC	1	0.5pF	6kV
2R400SM-EH	None	400V±30%	950V	1KA	100VDC	1	0.5pF	6kV

Test Methods and Results

Items	Test Method	Standard
DC Spark-over Voltage	measured with voltage ramp dv/dt=100V/s.	To meet the specified value
Maximum Impulse Spark-over Voltage	measured with voltage ramp dv/dt=1000V/μs.	
Impulse Discharge Current	applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time,	
Insulation Resistance	measured between two electrodes.	
Capacitance	measured between two electrodes. Test frequency: 1MHz	
Impulse Withstanding Voltage	10/700μs surge that can be applied to the Gas Tube, 5 positive and 5 negative surges, with 1 minute interval time.	

Soldering Parameters

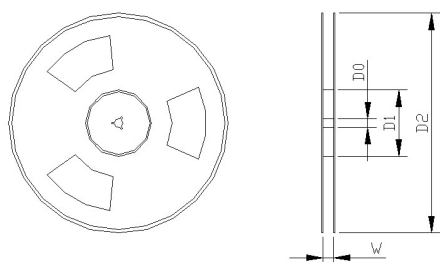
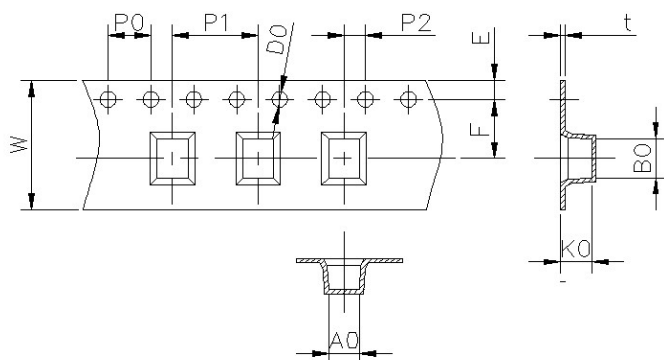
Reflow Soldering



Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat <ul style="list-style-type: none"> -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 <ul style="list-style-type: none"> -Ramp-up Rate 	3°C/second max.
Time maintained above: <ul style="list-style-type: none"> -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.

Packaging Specification

Tape	Symbol	Dimension (mm)
	W	12.0±0.2
	P0	4.0±0.1
	P1	8.0±0.2
	P2	2.0±0.1
	D0	1.55±0.1
	E	1.75±0.1
	F	5.5±0.1
	A0	2.9±0.1
	K0	2.9±0.1
	B0	3.6±0.1
	t0	0.4±0.1
Reel	D0	13.3±1.0
	D1	100.0±2.0
	D2	330.0±2.0
	W	8.5±0.5
	Quantity: 2500pcs	



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