Gas Discharge Tubes 2R-E Series

2R-E Series

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Additional Information



Agency Approvals Agency Agency File Number Stress E527857

Features

- Stable breakdown voltage
- High insulation resistance
- High current rating
- Low capacitance (≤0.5pF)
- Stable performance over lifeLarge absorbing transient
- current capability

Applications

- Repeaters, Modems
- Subscriber protection
- Telephone Interface, Line
- cards

 Data communication
 - equipment

- Fast response time
- RoHS compliant
- Standard Size: 3.2mm*1.6mm*1.6mm
- Meets MSL level 1, per J-STD-020
- Storage and operating temperature: -40°C ~ +90°C
- Line test equipment
- Branch exchange
- Subscriber protection
- Alarm system
- Tuner
- Antenna protection

GDT Graphical Symbol



Part Number Code and Marking







Part Number	Marking	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Minimum Insulation Resistance		Maximum Capacitance	Agency Approvals
		100V/s	1000V/µs	8/20µs, 10 times	Test Voltage	GΩ	1MHz	
2R150SM-E	None	150V±30%	750V	500A	50VDC	1	0.5pF	\checkmark
2R200SM-E	None	200V±30%	850V	500A	100VDC	1	0.5pF	~
2R230SM-E	None	230V±30%	850V	500A	100VDC	1	0.5pF	\checkmark
2R300SM-E	None	300V±30%	900V	500A	100VDC	1	0.5pF	\checkmark
2R350SM-E	None	350V±30%	950V	500A	100VDC	1	0.5pF	\checkmark
2R400SM-E	None	400V±30%	1000V	500A	100VDC	1	0.5pF	\checkmark
2R420SM-E	None	420V±30%	1000V	500A	100VDC	1	0.5pF	\checkmark
2R470SM-E	None	470V±30%	1100V	500A	100VDC	1	0.5pF	\checkmark

Electrical Characteristics (T_A=25 $^\circ\mathrm{C}$)

Test Methods and Results

Items	Test Method	Standard
DC Spark-over Voltage	DC Spark-over Voltagemeasured with voltage ramp dv/dt=100V/s.Maximum Impulse Spark-over Voltagemeasured with voltage ramp dv/dt=1000V/µs.Impulse Discharge Currentapplied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time,	
Maximum Impulse Spark-over Voltage		
Impulse Discharge Current		
Insulation Resistance	Insulation Resistance measured between two electrodes.	
Capacitance measured between two electrodes. Test frequency: 1MHz		



Soldering Parameters



Dimensions

Recommended Pad Layout	Symbol	Dimensions(mm)
в с 1.2	т	3.2±0.3
	А	1.6±0.2
	В	0.3±0.1
	С	1.6±0.2

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Packaging Specification

Таре	Symbol	Dimension (mm)	
	W	12.0±0.2	
	Р	8.0±0.2	
	P0	4.0±0.1	
	P1	2.0±0.1	
	D0	1.55±0.1	
	Е	1.75±0.1	
	F	3.5±0.1	
	A0	1.9±0.1	
	K0	1.9±0.1	
	B0	3.5±0.1	
	tO	0.3±0.1	
Reel	D0	13.0±1.0	
	D1	60.0±2.0	
	D2	178.0±2.0	
	W	8.5±0.2	
	Quantity: 2500pcs		

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