

DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE

B32-H2.5 series

RoHS compliant & free





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Gas Discharge Tube (GDT) Data Sheet

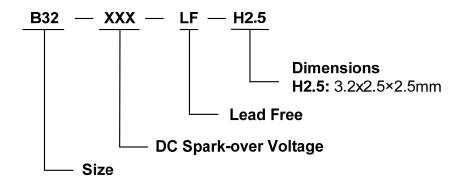
Features

- High insulation resistance
- Low capacitance (≤0.5pF)
- 1KA 8/20µs maximum surge current capacity in accordance with IEC61000-4-5
- 6KV 10/700µs maximum surge rating in accordance with ITU-TK.21
- Surface mounted gas arrester
- Micro-Gap Design
- Size 3225(1210)
- Storage and operating temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL

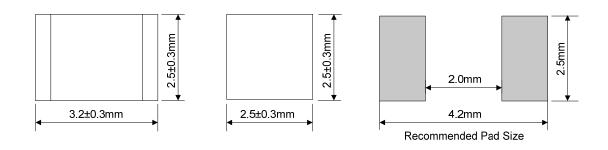
Applications

- Repeaters, Modems
- Telephone Interface, Line cards
- Data communication equipment
- Line test equipment

Part Number Code



Dimensions





GAS DISCHARGE TUBS

Electrical Characteristics

Part Number	Type ①	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Impulse Withstanding Voltage Capacity	Minim Insulat Resista	tion	Maximum Capacitance	Device Marking
		100V/s	1000V/µs	8/20µs 10times	10/700µs 10times	Test Voltage	(GΩ)	(1MHz)	Code
		(V)	(V)	(KA)	(KV)	DC(V)		(pF)	
B32-090-LF	H2.5	63~117	700	1.0	6.0	50	1.0	0.5	None
B32-150-LF	H2.5	105~195	750	1.0	6.0	100	1.0	0.5	None
B32-200-LF	H2.5	160~240	800	1.0	6.0	100	1.0	0.5	None
B32-300-LF	H2.5	240~360	850	1.0	6.0	100	1.0	0.5	None
B32-400-LF	H2.5	360~580	950	1.0	6.0	100	1.0	0.5	None

Electrical Ratings

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	I ne voltage is measured with voltage ramp dy/gt=100v/s	
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/µs.	
Insulation Resistance The resistance of gas tube shall be measured between two elements of the resistance of the resistance of gas tube shall be measured between two elements of the resistance		To meet
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	the specified value
Impulse Discharge Current	Maximum 8/20µs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time.	
Impulse Withstanding Voltage	The maximum 10/700µs surge that can be applied to the Gas Tube, 5 positive and 5 negative surges, with 1 minute interval time.	

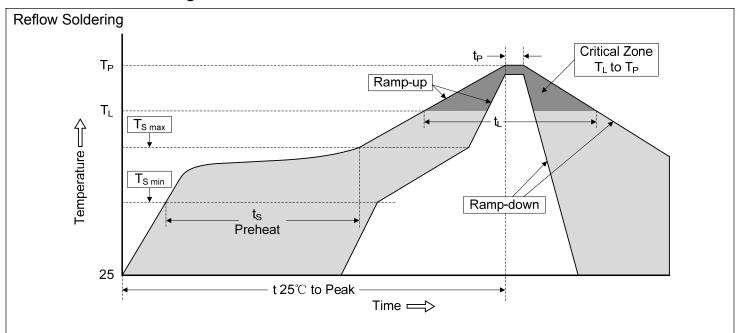
Reliability

Items	Test conditions / Methods	Standard
Cold Resistance	Measurement after -40 ℃ /1000 HRS & normal temperature/2 HRS.	
Heat Resistance	Measurement after 125 ℃ /1000 HRS & normal temperature/2 HRS.	Features are conformed to rated spec.
Humidity Resistance	Measurement after humidity 90~95°C(45°C) /1000 HRS & normal temperature/2 HRS.	

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Temperature Cycle	10 times repetition of cycle -40 $^{\circ}$ C/30min \rightarrow normal, temp/2 min \rightarrow 125 $^{\circ}$ C/30min, measurement after normal temp/2 HRS.	
Solder Ability	Check for solder adhesion after 260 $\pm5^\circ\!$	Evenly covered by solder.
Solder Heat	Measurement after 260 $\pm5^\circ\!$	Conformed to rated spec.

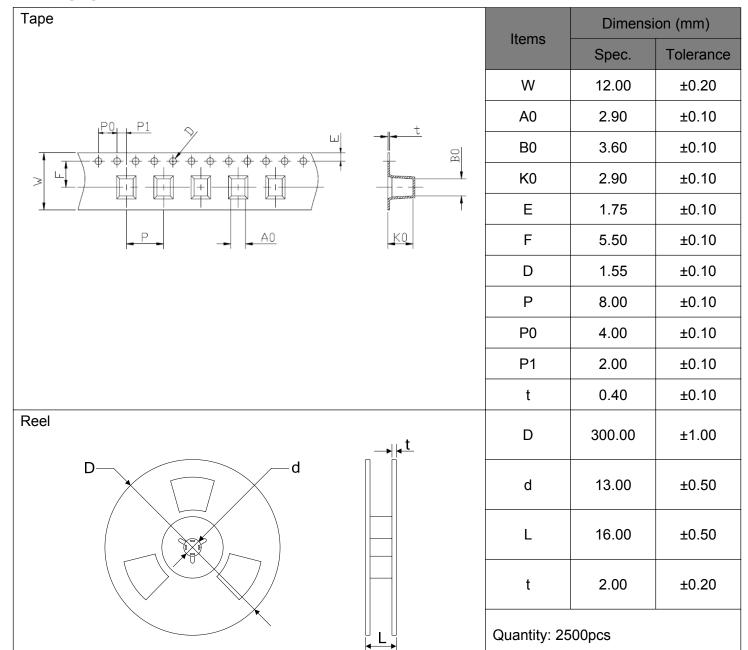
Recommended Soldering Conditions



Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T _L to T _P)	3℃/second max.
Preheat -Temperature Min (T _{S min}) -Temperature Max (T _{S max}) -Time (min to max) (ts)	150°C 200°C 60-180 seconds
T _{S max} to T _L -Ramp-up Rate	3℃/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	217℃ 60-150 seconds
Peak Temperature (T _P)	260℃
Time within 5°C of actual Peak Temperature (t _P)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25℃ to Peak Temperature	8 minutes max.

Packaging





Circuit Protection Components

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