

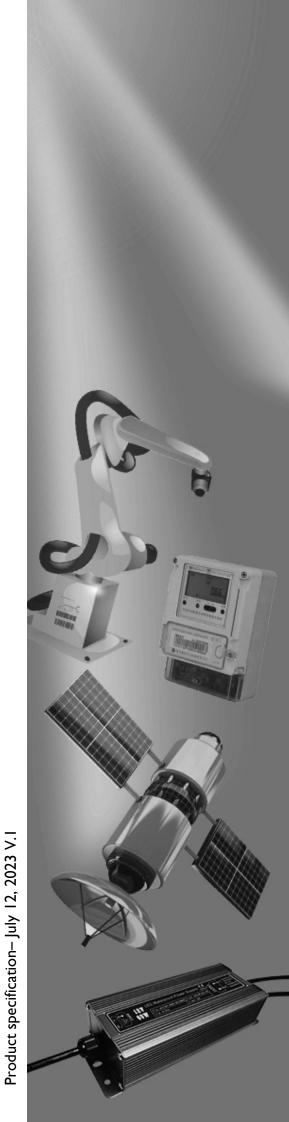
DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE

B32-H2.5 series

RoHS compliant & free





Gas Discharge Tube (GDT) Data Sheet

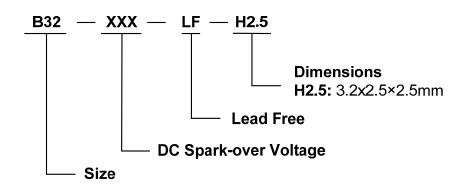
Features

- 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

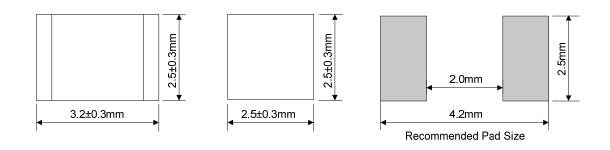
Applications

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

Part Number Code



Dimensions





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Electrical Characteristics

Part Number	Type ①	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Impulse Withstanding Voltage Capacity	Minimum Insulation Resistance		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

Notes: ① Specific code by request.

Electrical Ratings

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=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 electrodes.	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.	

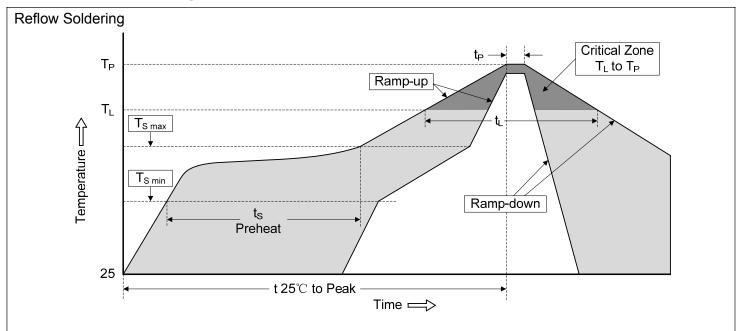
Reliability

Items	Test conditions / Methods	Standard
Cold Resistance	Measurement after -40 ℃ /1000 HRS & normal temperature/2 HRS.	
Heat Resistance	Measurement after 125 °C /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 $\pm5^\circ\!\mathrm{C}^-$ solder for 10sec, The body immersion depth 1.5mm in molten solder	Conformed to rated spec.

Recommended Soldering Conditions



Recommended Conditions

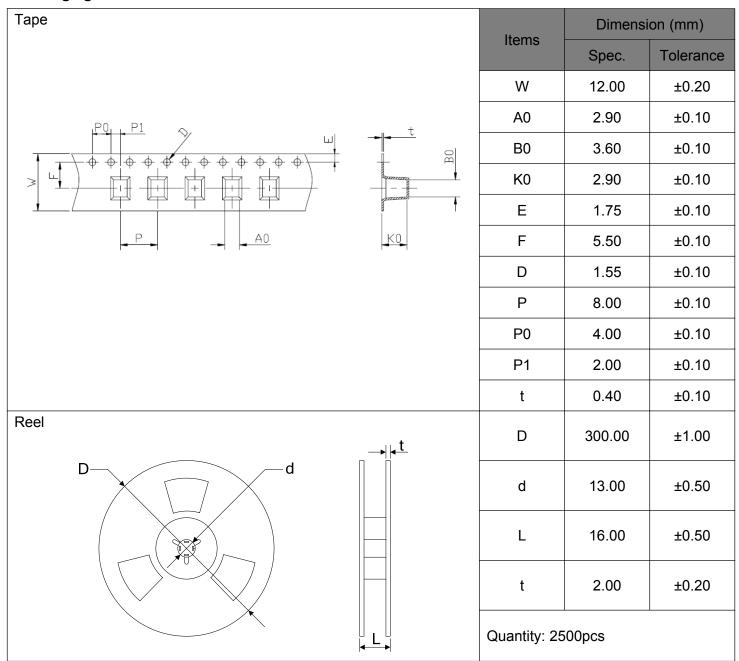
Profile Feature	Pb-Free Assembly
Average ramp-up rate (T _L to T _P)	3℃/second max.
Preheat -Temperature Min (T _{S min}) -Temperature Max (T _{S max}) -Time (min to max) (ts)	150°C 200°C 60-180 seconds
T _{S max} to T _L -Ramp-up Rate	3℃/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)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

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Packaging





Circuit Protection Components

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