

DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE

B32 series

RoHS compliant & free







GAS DISCHARGE TUBS

Gas Discharge Tube (GDT) Data Sheet

Features

- High insulation resistance
- Low capacitance (≤0.5pF)
- 500A 8/20µs maximum surge current capacity in accordance with IEC61000-4-5

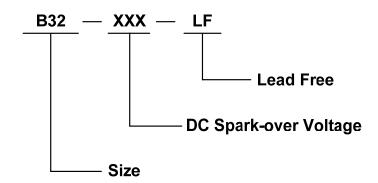
■ 4KV 10/700µs maximum surge rating in accordance with ITU-TK.21

- Surface mounted gas arrester
- Micro-Gap Design
- Size 3216(1206)
- Storage and operating temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL

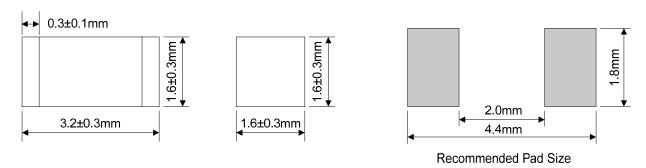
Applications

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

Part Number Code



Dimensions





Electrical Characteristics

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Minimum Insulation Resistance		Maximum Capacitance	Nominal Impulse Discharge Current	Impulse Withstanding Voltage Capacity	Device Marking
	100V/s	1000V/µs	Test Voltage	(GΩ)	(1MHz)	8/20µs 10 Times	10/700µs 10 Times	Code
	(V)	(V)	DC(V)		(pF)	(A)	(KV)	
B32-150-LF	150±30%	750	50	1	0.5	500	4	None
B32-200-LF	200±30%	900	100	1	0.5	500	4	None
B32-230-LF	230±30%	950	100	1	0.5	500	4	None
B32-300-LF	300±30%	1000	100	1	0.5	500	4	None
B32-350-LF	350±30%	1100	100	1	0.5	500	4	None
B32-400-LF	400±30%	1100	100	1	0.5	500	4	None
B32-420-LF	420±30%	1200	100	1	0.5	500	4	None
B32-470-LF	470±30%	1200	100	1	0.5	500	4	None

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.	To meet the specified value			
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.				
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz				
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.				

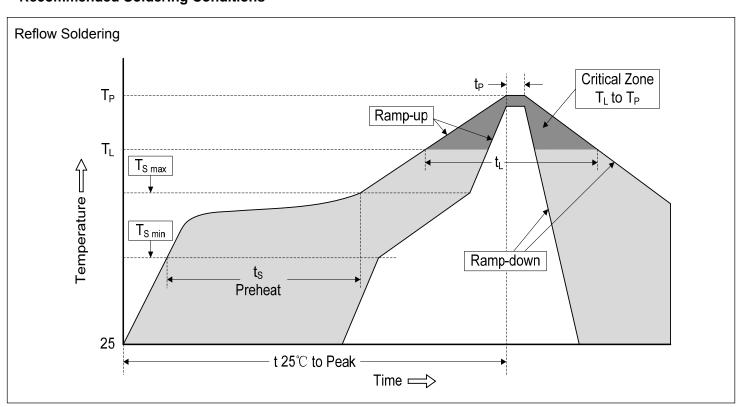


GAS DISCHARGE TUBS

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.			
Humidity Resistance	Measurement after humidity 90~95℃(45℃) /1000 HRS & normal temperature/2 HRS.	Features are conformed to rated spec.		
Temperature Cycle	10 times repetition of cycle -40°C/30min → normal, temp/2 min → 125°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



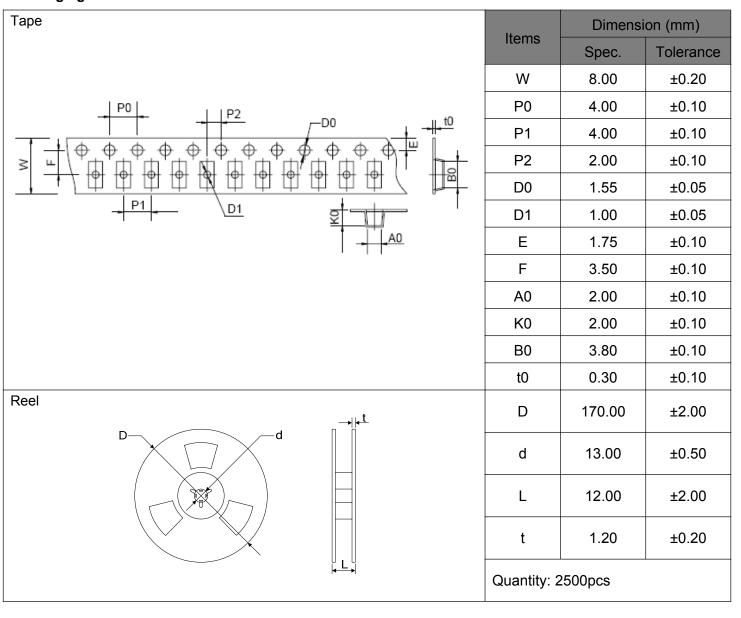


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Recommended Conditions

Profile Feature	Pb-Free Assembly	
Average ramp-up rate (T _L to T _P)	3℃/second max.	
Preheat		
-Temperature Min (T _{S min})	150℃	
-Temperature Max (T _{S max})	200 ℃	
-Time (min to max) (ts)	60-180 seconds	
T _{S max} to T _L		
-Ramp-up Rate	3°C/second max.	
Time maintained above:		
-Temperature (T _L)	217℃	
-Time (t∟)	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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