

2-Electrode Spark Gap

GXH Series

Description

The GXH Series of 2-electrode spark gaps are gas discharge tubes, hermetically sealed in a glass/metal envelope. Tubes with a DC breakdown voltage in the range 0.50KV to 12 kV are available. This is signified by a numeral or numerals following the type letters and is expressed in hundreds of volts.



Applications

- I Single-shot pulse generators
- I Turbine engine ignition circuits
- I Medical lithotripsy
- I High energy switches

Electrical And Physical Characteristics

All ratings given in this data sheet are absolute, nonsimultaneous ratings. It is the equipment designer's responsibility to ensure that they are not exceeded. The spark gap life depends on circuit conditions such as peak discharge current and duration, charge transfer per discharge and the repetition rate.

Charge transfer, single discharge (8/20 ms waveshape)	0.5C max
Cumulative charge transfer	6000C at 0.81mC per discharge at 1 Hz
Operating temperature	-55 to +125°C
Mechanical shock, half-sine (to B.S. 2011 test Ea)	40g for 4ms
Mounting	screw mounted
Radioactivity	tritium (3H), 5.44 MBq (147 mCi) max per device

Electrical Characteristics

Type Number	DC Spark-Over Voltage	Max. Impulse Discharge Current(8/20μs)	Max. Energy Level	Min. Insulation Resistance	Max. Capacitance	Max. power
	V	KA	J	MΩ	pF	W
GXH05	500±10%	30	60	100	5	60
GXH10	1000±10%	30	60	100	5	60
GXH12	1200±10%	30	60	100	5	60
GXH14	1400±10%	30	60	100	5	60
GXH15	1500±10%	30	60	100	5	60
GXH16	1600±10%	30	60	100	5	60
GXH18	1800±10%	30	60	100	5	60
GXH19	1900±10%	30	60	100	5	60
GXH20	2000±10%	30	60	100	5	60
GXH21	2100±10%	30	60	100	5	60
GXH22	2200±10%	30	60	100	5	60
GXH23	2300±10%	30	60	100	5	60
GXH24	2400±10%	30	60	100	5	60
GXH25	2500±10%	30	60	100	5	60
GXH26	2600±10%	30	60	100	5	60
GXH27	2700±10%	30	60	100	5	60
GXH28	2800±10%	30	60	100	5	60
GXH29	2900±10%	30	60	100	5	60
GXH30	3000±10%	30	60	100	5	60
GXH31	3100±10%	30	60	100	5	60
GXH32	3200±10%	30	60	100	5	60
GXH33	3300±10%	30	60	100	5	60
GXH34	3400±10%	30	60	100	5	60
GXH35	3500±10%	30	60	100	5	60
GXH40	4000±10%	30	60	100	5	60
GXH45	4500±10%	30	60	100	5	60
GXH50	5000±10%	30	60	100	5	60
GXH55	5500±10%	30	60	100	5	60
GXH60	6000±10%	30	60	100	5	60
GXH65	6500±10%	30	60	100	5	60
GXH70	7000±10%	30	60	100	5	60
GXH75	7500±10%	30	60	100	5	60
GXH80	8000±10%	30	60	100	5	60
GXH85	8500±10%	30	60	100	5	60
GXH90	9000±10%	30	60	100	5	60
GXH95	9500±10%	30	60	100	5	60
GXH100	10000±10%	30	60	100	5	60
GXH105	10500±10%	30	60	100	5	60
GXH110	11000±10%	30	60	100	5	60
GXH115	11500±10%	30	60	100	5	60
GXH120	12000±10%	30	60	100	5	60

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Dimensions(mm)

