



Datasheet

Switching Spark Gap (SSG)

Series / Models	GXH Series
Product Code	10.25.07.XXXX
Version	A3
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Switching Spark Gap (SSG)

GXH Series

Version History

Version	Date	Page	Description	Author
A0	2015-11-19	/	Initial draft	ChuRu Wang
A1	2023-05-22	All	Use the new version	XianTao Jiang
A2	2026-03-02	All	1. Add cover and version history 2. Update Electrical And Physical Characteristics	Xia Wu
A3	2026-08-11	Page3,5	Update Dimension	Xia Wu

Switching Spark Gap (SSG)

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 500 V to 12 kV are available. This is signed by a numeral or numerals following the type letters and is expressed in hundreds of volts, e.g. GXH 60 has a 6kV DC breakdown voltage.



B Series

Applications

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



A Series

Electrical And Physical Characteristics

All ratings given in this data sheet are absolute, non-simultaneous 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 (8/20μs waveform)	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	¹³⁷ Cs, 3.95×10 ³ Bq (1.07×10 ⁻⁷ Ci) max. per device

Switching Spark Gap (SSG)

GXH Series

Electrical Characteristics

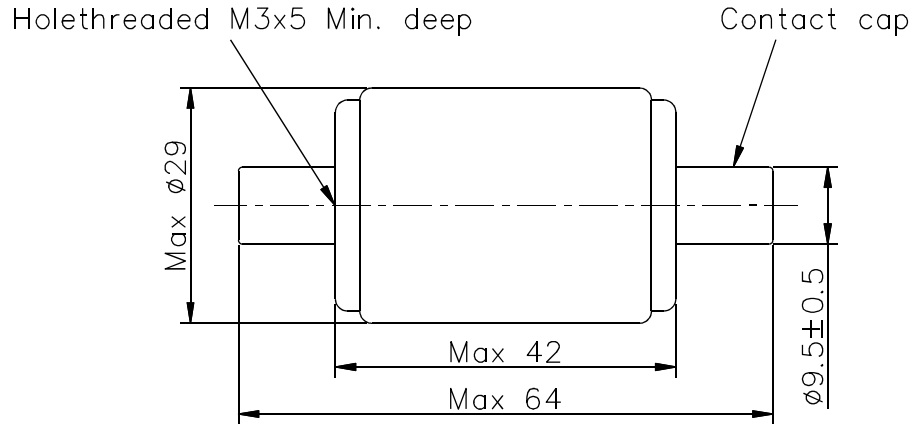
Part Number	DC Spark-Over Voltage	Max. Impulse Discharge Current @8/20μS	Max. Energy Level	Min. Insulation Resistance	Max. Capacitance	Max. Power
	V	KA	J	MΩ	pF	W
GXH05	500±10%	30	60	100	5	60
GXH10	1000±10%	30	60	100	5	60
GXH12	1200±10%	30	60	100	5	60
GXH14	1400±10%	30	60	100	5	60
GXH15	1500±10%	30	60	100	5	60
GXH16	1600±10%	30	60	100	5	60
GXH18	1800±10%	30	60	100	5	60
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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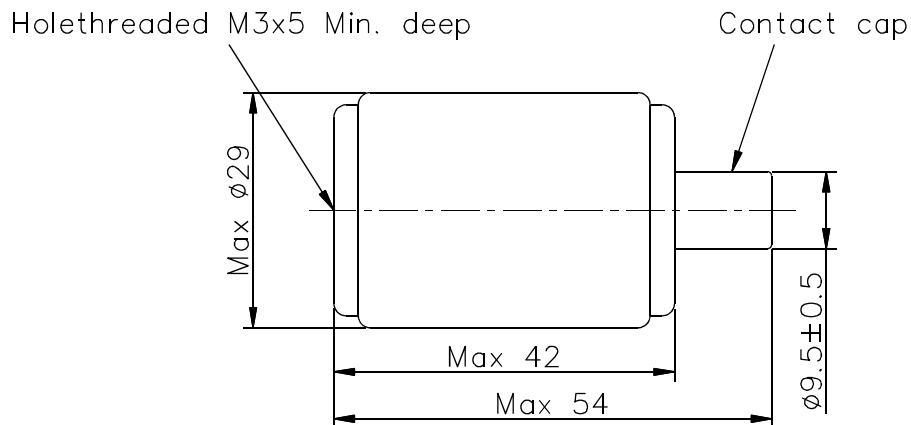
GXH Series

Dimensions(mm)

A Series



B Series



Warehouse Storage Conditions of Products

I Storage Conditions:

1. Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$.
2. Relative Humidity: $\leq 75\% \text{RH}$
3. Keep away from corrosive atmosphere and sunlight.

I Period of Storage: 1 year.

Cautions

- I Switching spark gaps may be used only within their specified values.
- I Damaged switching spark gaps must not be re-used.
- I The electrical characteristics described in this datasheet are only typical characteristics, and all of these characteristics have been confirmed through testing and inspection. If the customer's usage requirements are different from this or have special requirements, please contact Ruilongyuan Electronics Co., Ltd. If protection failure or circuit damage occurs as a result, our company is not responsible for it.
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