



# 2-electrode Spark Gap

**GXH Series**

## 2-electrode Spark Gap - GXH Series

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 250 V to 10 kV are available. This is signified 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.



**A Series**



**B Series**

### Typical Applications

1. Single-shot pulse generators
2. Turbine engine ignition circuits
3. Medical lithotripsy
4. High energy switches

### Electrical And Physical Characteristics

All ratings given in this data sheet are real solute, 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

## 2-electrode Spark Gap - GXH Series

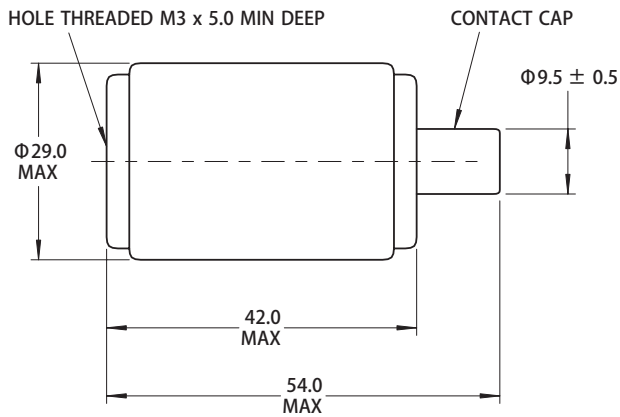
### Electrical Characteristics

Part No.	DC Spark-over Voltage	Max. Impulse Discharge Current (8/20 $\mu$ s)	MAX Energy Level	Minimum Insulation Resistance	Maximum Capacitance	Maximum power
	(V)	(KA)	(J)	(M $\Omega$ )	pF	W
GXH05	500	30	60	100	5	60
GXH10	1000	30	60	100	5	60
GXH12	1200	30	60	100	5	60
GXH14	1400	30	60	100	5	60
GXH15	1500	30	60	100	5	60
GXH16	1600	30	60	100	5	60
GXH18	1800	30	60	100	5	60
GXH20	2000	30	60	100	5	60
GXH21	2100	30	60	100	5	60
GXH22	2200	30	60	100	5	60
GXH23	2300	30	60	100	5	60
GXH24	2400	30	60	100	5	60
GXH25	2500	30	60	100	5	60
GXH26	2600	30	60	100	5	60
GXH27	2700	30	60	100	5	60
GXH28	2800	30	60	100	5	60
GXH29	2900	30	60	100	5	60
GXH30	3000	30	60	100	5	60
GXH31	3100	30	60	100	5	60
GXH32	3200	30	60	100	5	60
GXH33	3300	30	60	100	5	60
GXH34	3400	30	60	100	5	60
GXH35	3500	30	60	100	5	60
GXH40	4000	30	60	100	5	60
GXH45	4500	30	60	100	5	60
GXH50	5000	30	60	100	5	60
GXH55	5500	30	60	100	5	60
GXH60	6000	30	60	100	5	60
GXH65	6500	30	60	100	5	60
GXH70	7000	30	60	100	5	60
GXH75	7500	30	60	100	5	60
GXH80	8000	30	60	100	5	60
GXH85	8500	30	60	100	5	60
GXH90	9000	30	60	100	5	60
GXH95	9500	30	60	100	5	60
GXH100	10000	30	60	100	5	60
GXH105	10500	30	60	100	5	60
GXH110	11000	30	60	100	5	60
GXH115	11500	30	60	100	5	60
GXH120	12000	30	60	100	5	60

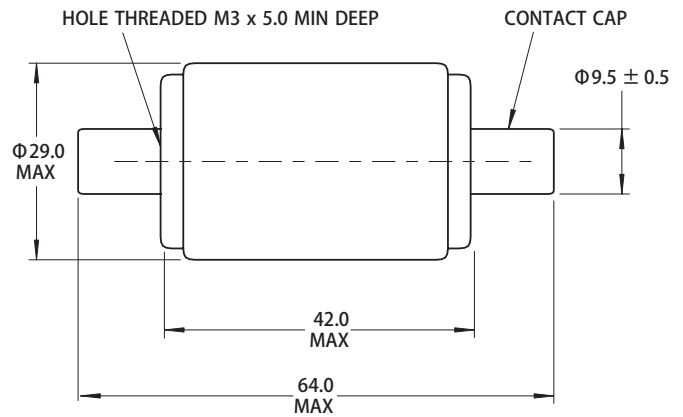
## 2-electrode Spark Gap - GXH Series

### OUTLINE (All dimensions in millimetres)

#### A Series



#### B Series



### Warehouse Storage Conditions of Products

- 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.
- Period of Storage: 1 year

## RuiLongYuan Electronics Co., Ltd.

---

- Reproducing and modifying information of the document is prohibited without permission from Ruilongyuan International Inc.
- Ruilongyuan International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Ruilongyuan International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Ruilongyuan International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Ruilongyuan International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ruilongyuan International Inc. for any damages resulting from such improper use or sale.

---

**Tel: +86-755-8290 8296**

**Fax: +86-755-8290 8002**

**E-mail: [jack@ruilon.com](mailto:jack@ruilon.com)**