



Datasheet

Switching Spark Gap (SSG)

Series / Models	GXP Series
Product Code	10.25.08.XXXX
Version	A3
Date	2026-08-12
File Number	SP-SSG-002

Switching Spark Gap (SSG)

GXP 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	2026-08-12	Page 5	Update Dimension	Xia Wu

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GXP Series

Description

The GXP 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. GXP 60 has a 6kV DC breakdown voltage.



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, 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

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Electrical Characteristics

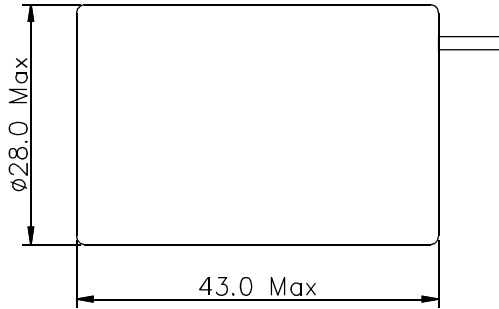
Part Number	DC Spark-Over Voltage	Max. Impulse Discharge Current @8/20μS	Max. Energy Level	Min. Insulation Resistance	Max. Capacitance	Max. Power
	V	KA	J	MΩ	pF	W
GXP05	500±10%	30	60	100	5	60
GXP10	1000±10%	30	60	100	5	60
GXP12	1200±10%	30	60	100	5	60
GXP14	1400±10%	30	60	100	5	60
GXP15	1500±10%	30	60	100	5	60
GXP16	1600±10%	30	60	100	5	60
GXP18	1800±10%	30	60	100	5	60
GXP20	2000±10%	30	60	100	5	60
GXP21	2100±10%	30	60	100	5	60
GXP22	2200±10%	30	60	100	5	60
GXP23	2300±10%	30	60	100	5	60
GXP24	2400±10%	30	60	100	5	60
GXP25	2500±10%	30	60	100	5	60
GXP26	2600±10%	30	60	100	5	60
GXP27	2700±10%	30	60	100	5	60
GXP28	2800±10%	30	60	100	5	60
GXP29	2900±10%	30	60	100	5	60
GXP30	3000±10%	30	60	100	5	60
GXP31	3100±10%	30	60	100	5	60
GXP32	3200±10%	30	60	100	5	60
GXP33	3300±10%	30	60	100	5	60
GXP34	3400±10%	30	60	100	5	60
GXP35	3500±10%	30	60	100	5	60
GXP40	4000±10%	30	60	100	5	60
GXP45	4500±10%	30	60	100	5	60
GXP50	5000±10%	30	60	100	5	60
GXP55	5500±10%	30	60	100	5	60
GXP60	6000±10%	30	60	100	5	60
GXP65	6500±10%	30	60	100	5	60
GXP70	7000±10%	30	60	100	5	60
GXP75	7500±10%	30	60	100	5	60
GXP80	8000±10%	30	60	100	5	60
GXP85	8500±10%	30	60	100	5	60
GXP90	9000±10%	30	60	100	5	60
GXP95	9500±10%	30	60	100	5	60
GXP100	10000±10%	30	60	100	5	60
GXP105	10500±10%	30	60	100	5	60
GXP110	11000±10%	30	60	100	5	60
GXP115	11500±10%	30	60	100	5	60
GXP120	12000±10%	30	60	100	5	60

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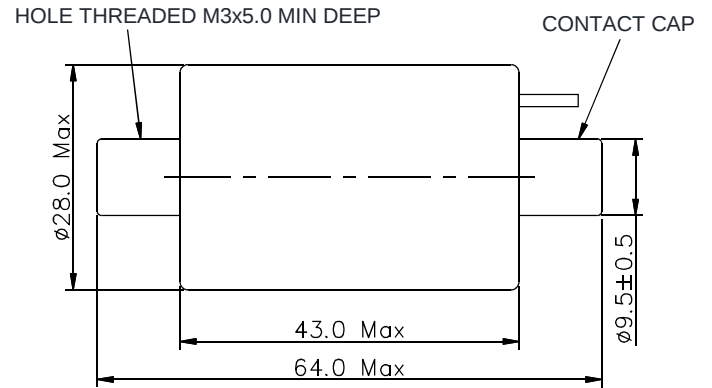
GXP Series

Dimensions(mm)

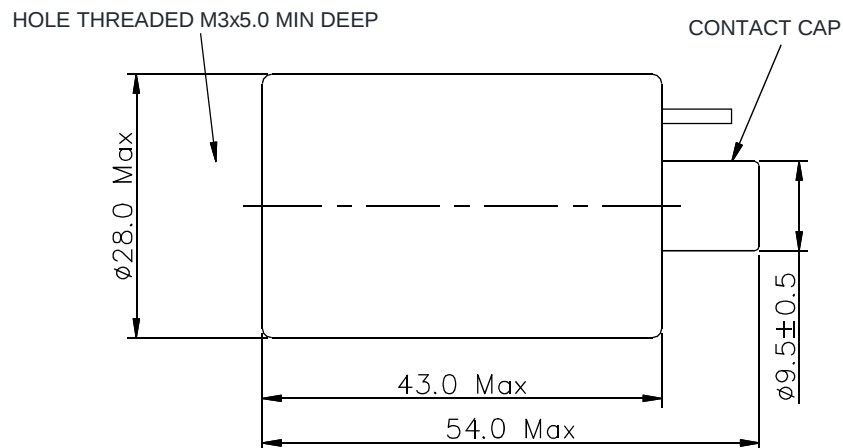
A Series



B Series



C Series



Warehouse Storage Conditions of Products

I Storage Conditions:

1. Storage Temperature: -10°C~+40°C.
2. Relative Humidity: ≤75%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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