



2-electrode Spark Gap

GXP Series

2-electrode Spark Gap - GXP Series

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 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. GXP60 has a 6kV DC breakdown voltage.



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 |

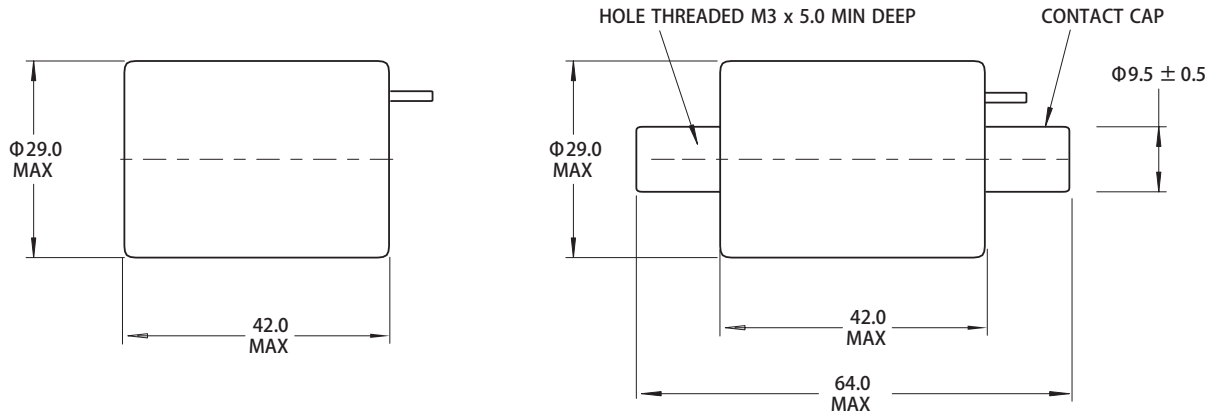
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Electrical Characteristics

| Part No. | DC Spark-over Voltage | Max. Impulse Discharge Current (8/20µs) | MAX Energy Level | Minimum Insulation Resistance | Maximum Capacitance | Maximum power |
|----------|-----------------------|-----------------------------------------|------------------|-------------------------------|---------------------|---------------|
| | (V) | (KA) | (J) | (MΩ) | pF | W |
| GXP05 | 500 | 30 | 60 | 100 | 5 | 60 |
| GXP10 | 1000 | 30 | 60 | 100 | 5 | 60 |
| GXP12 | 1200 | 30 | 60 | 100 | 5 | 60 |
| GXP14 | 1400 | 30 | 60 | 100 | 5 | 60 |
| GXP15 | 1500 | 30 | 60 | 100 | 5 | 60 |
| GXP16 | 1600 | 30 | 60 | 100 | 5 | 60 |
| GXP18 | 1800 | 30 | 60 | 100 | 5 | 60 |
| GXP20 | 2000 | 30 | 60 | 100 | 5 | 60 |
| GXP21 | 2100 | 30 | 60 | 100 | 5 | 60 |
| GXP22 | 2200 | 30 | 60 | 100 | 5 | 60 |
| GXP23 | 2300 | 30 | 60 | 100 | 5 | 60 |
| GXP24 | 2400 | 30 | 60 | 100 | 5 | 60 |
| GXP25 | 2500 | 30 | 60 | 100 | 5 | 60 |
| GXP26 | 2600 | 30 | 60 | 100 | 5 | 60 |
| GXP27 | 2700 | 30 | 60 | 100 | 5 | 60 |
| GXP28 | 2800 | 30 | 60 | 100 | 5 | 60 |
| GXP29 | 2900 | 30 | 60 | 100 | 5 | 60 |
| GXP30 | 3000 | 30 | 60 | 100 | 5 | 60 |
| GXP31 | 3100 | 30 | 60 | 100 | 5 | 60 |
| GXP32 | 3200 | 30 | 60 | 100 | 5 | 60 |
| GXP33 | 3300 | 30 | 60 | 100 | 5 | 60 |
| GXP34 | 3400 | 30 | 60 | 100 | 5 | 60 |
| GXP35 | 3500 | 30 | 60 | 100 | 5 | 60 |
| GXP40 | 4000 | 30 | 60 | 100 | 5 | 60 |
| GXP45 | 4500 | 30 | 60 | 100 | 5 | 60 |
| GXP50 | 5000 | 30 | 60 | 100 | 5 | 60 |
| GXP55 | 5500 | 30 | 60 | 100 | 5 | 60 |
| GXP60 | 6000 | 30 | 60 | 100 | 5 | 60 |
| GXP65 | 6500 | 30 | 60 | 100 | 5 | 60 |
| GXP70 | 7000 | 30 | 60 | 100 | 5 | 60 |
| GXP75 | 7500 | 30 | 60 | 100 | 5 | 60 |
| GXP80 | 8000 | 30 | 60 | 100 | 5 | 60 |
| GXP85 | 8500 | 30 | 60 | 100 | 5 | 60 |
| GXP90 | 9000 | 30 | 60 | 100 | 5 | 60 |
| GXP95 | 9500 | 30 | 60 | 100 | 5 | 60 |
| GXP100 | 10000 | 30 | 60 | 100 | 5 | 60 |
| GXP105 | 10500 | 30 | 60 | 100 | 5 | 60 |
| GXP110 | 11000 | 30 | 60 | 100 | 5 | 60 |
| GXP115 | 11500 | 30 | 60 | 100 | 5 | 60 |
| GXP120 | 12000 | 30 | 60 | 100 | 5 | 60 |

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OUTLINE (All dimensions in millimetres)



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

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