The data should be read in conjunction with the 3-electrode Spark Gap Preamble.

**DESCRIPTION**

The GXG Series of triggered 3-electrode spark gaps are gas discharge tubes, hermetically sealed in a ceramic/metal envelope. Tubes with a DC hold-off voltage in the standard range 15 to 50 kV are available. This is signified by numerals following the type letters, expressed in hundreds of volts, e.g. GXG350L has a 35 kV DC hold-off voltage capability.

**TYPICAL APPLICATIONS**

- Medical lithotripsy
- Crowbar circuits
- High di/dt switching
- High voltage switches for laser firing
- 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.

**DC hold-off voltage range**

(see note 1) 15 kV to 50 kV

**Hold-off voltage tolerance** 0 to +10%

**Operating voltage range** 40 to 80% of hold-off

**Trigger requirements** 15 kV min at ≥15 kV/μs (open circuit peak amplitude), trigger current > 1.0 A

Peak current, single discharge 140 kA max

Charge transfer, single discharge 0.5 C max

Cumulative charge transfer at 16 mC per discharge, 4 Hz, 10 kA peak current under-damped 16 000 C

Anode delay time at 2 Hz ≤15 μs (see note 2)

Operating temperature −40 to +70 °C

Mechanical shock, half-sine 40 g for 6 ms

Mounting position (see Preamble) any

**NOTES**

1. Other voltage variants are available on request. For use above 40 kV, immersion of the device in insulating oil to BS148:1972 or an equivalent medium is recommended.

2. Typical value measured from 90% of trigger breakdown to anode peak current, at 50 to 80% of hold-off voltage.

**OUTLINE**

(Maximum dimensions in millimetres)

4 HOLES EACH END

THREADED M4 x 0.7-6H, DEPTH 2.5 TURNS MIN.

EQUISPACED ON 38.1 NOM. PCD

**OPERATING VOLTAGE RANGE**

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