

## *Gas Discharge Tubes*

## ***High Performance Beta Range***

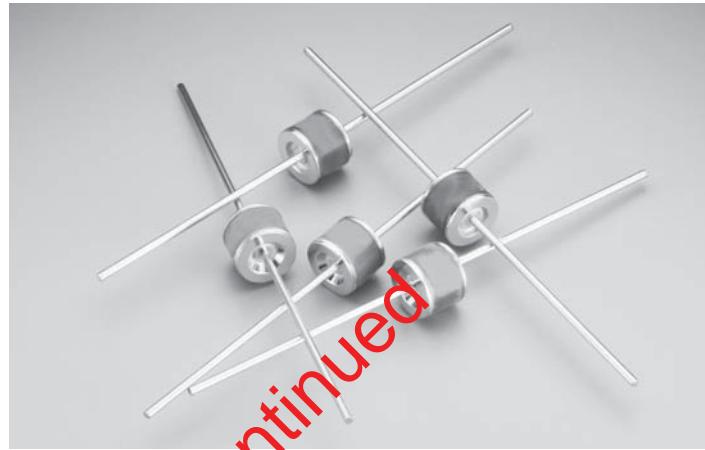
# RoHS Greentube™ HV Series Gas Plasma Arresters



The HV Series is a 2-terminal bi-directional, voltage triggered switch designed for the protection of high voltage circuits. Switching voltages for the devices are fixed depending on the part number selected. The gas plasma trigger technology offers very fast switching speeds, high current capability and very low leakage currents.

## Features

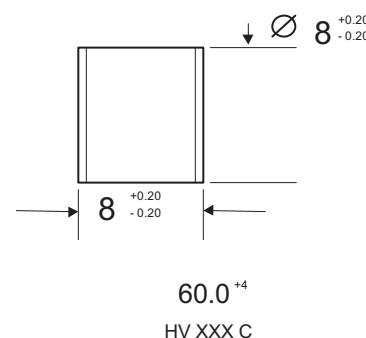
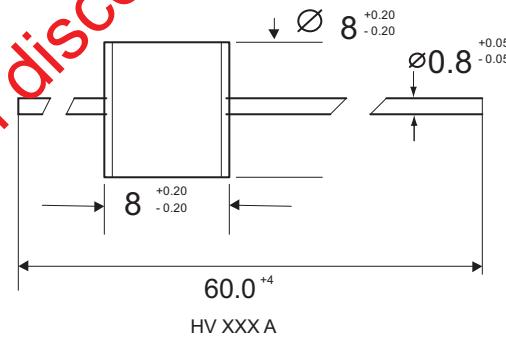
- 2 terminal configuration.
- Very high Isolation up to the specified switching voltage.
- Switching performance is virtually unaffected by changes in ambient temperature.
- UL 1414 class Y2 rated. Listed under file number E56529.
- Moisture resistance as per MIL-STD-202 method 106 (90-98%RH, 65°C).
- Tape and reel to EIA 481-1.



## Applications

- To protect of high voltage circuits.
- To provide isolation between chassis and ground.

The image shows a technical drawing of a component, likely a connector or a housing, with a large red diagonal stamp reading "This product has been discontinued". The drawing includes a central rectangular frame with a width of 8 mm and a height of 60.0 mm, indicated by dimension lines and numerical values. The drawing is labeled "HV XXX A". Above the drawing, there is a photograph of a physical component, possibly a metal connector, with two long, thin, cylindrical pins extending from it. The text "to the specified switching voltage." and "is virtually unaffected by changes in" is visible at the top left, and ". Listed under file number E56529. per MIL-STD-202 method 106" is at the top right. The text "81-1." is on the far left.



## ORDERING INFORMATION

HV 275  
Voltage (x10)  
Lead Form

A= Axial lead, tape & reel  
C= Core

## **Mechanical Specifications:**

<b>Weight:</b>	1.42g (0.049oz.)
<b>Materials:</b>	Electrode Base: Copper alloy Electrode Plating material: Bright Sn Body: Ceramic
<b>Device Marking:</b>	Littelfuse 'LF' marking, voltage and product code

# Gas Discharge Tubes

## Gas Plasma Voltage Dependent Switches

### **RoHS** Greentube™ HV Series Gas Plasma Arresters



#### Device Ratings and Specifications

DC Breakover Voltage ( $V_{BO}$ ) <sup>(1)</sup>	2850 – 3500 V
Insulation Resistance ( $R_S$ ) <sup>(2)</sup>	100 MΩ
Max Capacitance ( $C_O$ ) <sup>(3)</sup>	1.0 pF
Max Impulse Breakover Voltage ( $I_{BO}$ ) <sup>(5)</sup>	3700 V

#### Maximum Ratings:

Impulse Discharge Current <sup>(4)</sup> .....	3 kA, 10 shots
Storage Temperature $T_{STG}$ .....	-40 - +150°C
Operating Temperature .....	-40 - +150°C

#### Notes:

(1) Measured @ 500 Volts / Second

(2) Measured @ 1000 Volts DC

(3) Measured @ 1 MHz, zero Volt bias

(4) Using 8/20µs double exponential pulse

(5) Measured at 100 Volts/µs rate of rise

OBSOLETE:  
This product has been discontinued

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