

## Specification Status: Released

### Marking:

XX 102 R 03 HB

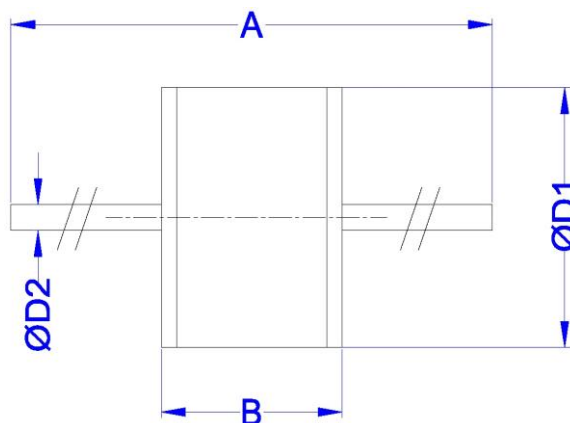
Week of Manufacture  
Per Manufacturer's  
Lot numbering system  
Eg. H = Second half of 2004; B = week 2

Surge Rating  
03: 03kA

Product Family

Voltage Designator  
102: 1000V

Manufacturer's Mark



**TABLE 1. DIMENSIONS:**

|      | A      |        | B      |        | ØD1    |        | ØD2    |
|------|--------|--------|--------|--------|--------|--------|--------|
|      | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | NOM    |
| mm:  | 58.0   | 66.0   | 5.8    | 6.2    | 7.8    | 8.2    | 0.8    |
| in*: | (2.28) | (2.60) | (0.23) | (0.24) | (0.31) | (0.32) | (0.03) |

\*Rounded off approximation

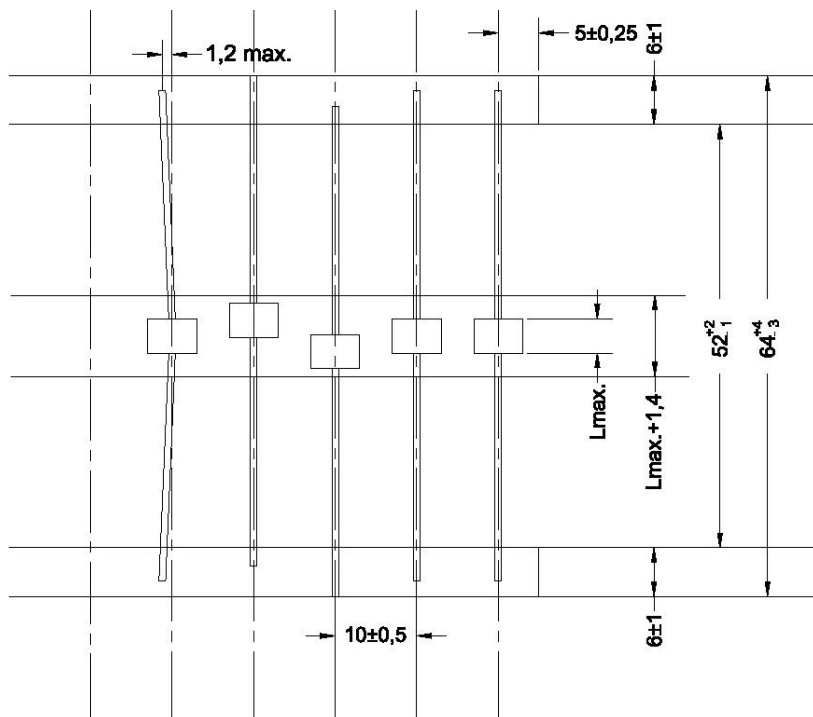
**TABLE 2. ELECTRICAL CHARACTERISTICS:**

| DC Sparkover Voltage* | Impulse Sparkover Voltage | Insulation Resistance | Capacitance | Impulse Discharge Current<br>8/20µs |       | AC Discharge Current,<br>50 Hz             |                      |
|-----------------------|---------------------------|-----------------------|-------------|-------------------------------------|-------|--------------------------------------------|----------------------|
| @ 100V/s              | @100V/µs                  | @250Vdc               | @ 1MHz      | 10 hits(5 hits for each polarity)   | 1 hit | Multiple Hits<br>(1s duration:<br>10 Hits) | Single hit, 9 cycles |
| 1000V ± 20%           | ≤1,700V                   | ≥10,000Mohm<br>s      | <1.0pF      | 3kA                                 | 10KA  | 1A                                         | 5A                   |

\*In ionized mode

Testing methods and specifications referring to ITU-T K.12

### TAPING INFORMATION: [Unit:mm]



### Packaging Quantity:

| REEL     | STANDARD PACKAGE |
|----------|------------------|
| 250 pcs. | 1,000 pcs.       |

### General Characteristics

No Radioactive Materials

Storage temperature: -40°C ... +90°C

Operating temperature: -40°C ... +90°C

Electrode Material: Fe-Ni alloy, Ni plated

Lead Material: Sn plated Copper

Agency Recognitions: UL1449 Recognized (File# E332226)

Precedence: This specification takes precedence over documents referenced herein

Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid

CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame

### Materials Information

ROHS Compliant

Directive 2002/95/EC  
Compliant

ELV Compliant

Directive 2000/53/EC  
Compliant

Pb-Free





Expertise Applied | Answers Delivered

## Gas Discharge Tube

### Over-Voltage Protection Device

**PRODUCT: GTCA28-102M-R03-2**

DOCUMENT: SCD28610

REV LETTER: A

REV DATE: JULY 26,2016

PAGE NO.: 3 of 3

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