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# Gas Discharge Tube

## Over-Voltage Protection Device

PRODUCT: GTCA28-302M-R03

DOCUMENT: SCD27870

REV LETTER: C

REV DATE: JULY 26, 2016

PAGE NO.: 1 OF 2

### Specification Status: Released

#### Marking:

XX 302 R 03 HB

Week of Manufacture  
Lot Numbering System  
Eg. H= Second Half of 2004; B= week 2

Surge Rating  
03:3kA

Product Family

Voltage Designator  
30 x 10<sup>2</sup> 3000V

Manufacturer Mark

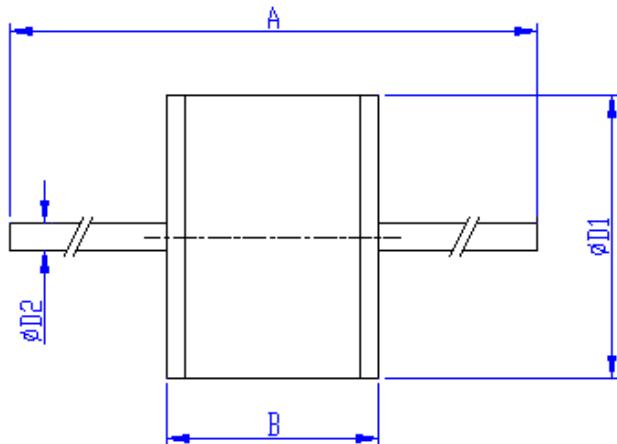


TABLE I. DIMENSIONS:

| A      |        | B      |        | D1     |        | D2     |
|--------|--------|--------|--------|--------|--------|--------|
| MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | NOM    |
| 58.0   | 66.0   | 5.8    | 6.2    | 7.8    | 8.2    | 0.8    |
| (2.28) | (2.60) | (0.23) | (0.24) | (0.31) | (0.32) | (0.03) |

\*Rounded off approximation

TABLE II. ELECTRICAL CHARACTERISTICS:

| DC Sparkover Voltage | Impulse Sparkover Voltage | Insulation Resistance | Capacitance | AC Discharge Current, 50 Hz          |                      | Impulse Discharge Current 8/20μs  |      |
|----------------------|---------------------------|-----------------------|-------------|--------------------------------------|----------------------|-----------------------------------|------|
| @100V/s              | @100V/μs                  | @1,000V <sub>DC</sub> | @1MHz       | Multiple Hits (1s duration: 10 hits) | Single hit, 9 cycles | 10 hits (5hits for each polarity) | 1hit |
| 3000V ± 20%          | ≤4000V                    | ≥ 10,000MΩ            | ≤1.0pF      | 1A                                   | 5A                   | 3kA                               | 10kA |

#### General Characteristics:

No Radioactive Materials

Storage temperature: -40°C ... +90°C

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

Electrode: Fe-Ni alloy, Ni plated

Lead: Sn plated Copper

Agency Recognitions: UL1449 (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



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