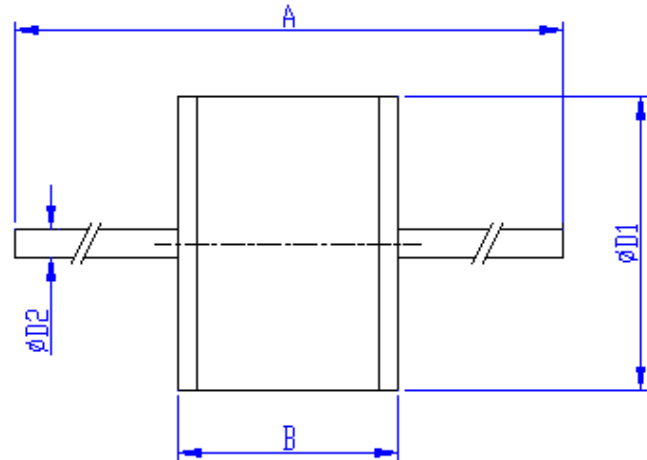


**Specification Status: Released**

**Marking:**

**X** 212 R 03 HB  
**Week of Manufacture**  
 Per Manufacturer's  
 lot number system:  
 E.g. H = Second half of 2004; B = week 2  
**Surge Rating:**  
 03: 3kA  
**Product Family**  
**Voltage Designator**  
 21 x 10<sup>2</sup> 2100V  
**Manufacturer's Symbol**



**TABLE I. DIMENSIONS:**

|     | A      |        | B      |        | D1     |        | D2     |
|-----|--------|--------|--------|--------|--------|--------|--------|
|     | 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 II. ELECTRICAL CHARACTERISTICS:**

| DC Sparkover Voltage | Impulse Sparkover Voltage | Insulation Resistance   | Capacitance | AC Discharge Current, 50 Hz          |                      | Impulse Discharge Current, 8/20 $\mu$ s |      |
|----------------------|---------------------------|-------------------------|-------------|--------------------------------------|----------------------|-----------------------------------------|------|
| @ 100V/s             | @100V/ $\mu$ s            | @500V <sub>DC</sub>     | @1MHz       | Multiple Hits (1s duration: 10 hits) | Single hit, 9 cycles | 10 hits (5hits for each polarity)       | 1hit |
| 2100V $\pm$ 20%      | $\leq$ 2,700V             | $\geq$ 10,000M $\Omega$ | <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 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

ELV Compliant

Pb-Free

Directive 2002/95/EC  
Compliant

Directive 2000/53/EC  
Compliant



## Gas Discharge Tube

Over-Voltage Protection Device

**PRODUCT: GTCA28-212M-R03**

DOCUMENT: SCD28002  
REV LETTER: C  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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