

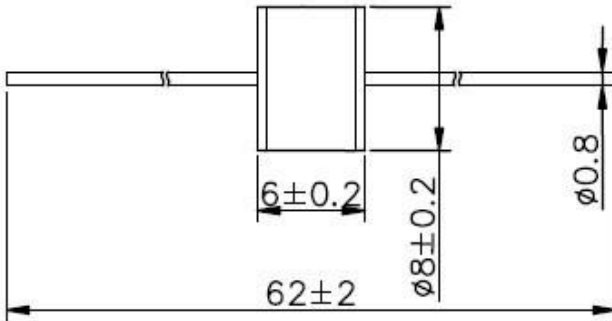
2-Electrode Gas Discharge Tubes

5KA

Axial Lead Wire



1: Dimension(mm)



2: Main Applications

- PCI Cards protection
- Telephone/Fax/Modem protection
- single line protection
- ADSL/XDSL Splitter, Power Supply
- Surge Protection Device/Surge Protector

3: Features

- 100% Lead-Free (RoHS Compliant)
- Non-Radioactive
- Low capacitance: $\leq 1.5\text{pF}$
- Small size : $\Phi 8 \times 6(\text{mm})$
- Safety certification: File number: E505240

4 Electrical Characteristics

| Part Number | DC Spark-over Voltage | Impulse Spark-over Voltage | Impulse Spark-over Voltage | Insulation Resistance | Impulse discharge current | Impulse Life | AC discharge current | Delivery time | UL Certificate |
|-------------|-----------------------|----------------------------|----------------------------|-----------------------|---------------------------------|-----------------------------------|----------------------|---------------|----------------|
| | @100V/S | @100V/ μs | @1KV/ μs | G Ω | @8/20 μs 10 Times | 300 hits 10x1000 μs | 50Hz, 1s 10times | days | UL497B |
| 2R75 | 75V $\pm 20\%$ | $\leq 500\text{V}$ | $\leq 600\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R90 | 90V $\pm 20\%$ | $\leq 500\text{V}$ | $\leq 600\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R140 | 140V $\pm 20\%$ | $\leq 500\text{V}$ | $\leq 600\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R150 | 150V $\pm 20\%$ | $\leq 500\text{V}$ | $\leq 600\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R200 | 200V $\pm 20\%$ | $\leq 600\text{V}$ | $\leq 700\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R230 | 230V $\pm 20\%$ | $\leq 600\text{V}$ | $\leq 700\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R250 | 250V $\pm 20\%$ | $\leq 600\text{V}$ | $\leq 700\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R260 | 260V $\pm 20\%$ | $\leq 700\text{V}$ | $\leq 800\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R300 | 300V $\pm 20\%$ | $\leq 800\text{V}$ | $\leq 900\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R350 | 350V $\pm 20\%$ | $\leq 900\text{V}$ | $\leq 1000\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R400 | 400V $\pm 20\%$ | $\leq 900\text{V}$ | $\leq 1000\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R420 | 420V $\pm 20\%$ | $\leq 900\text{V}$ | $\leq 1000\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R470 | 470V $\pm 20\%$ | $\leq 1100\text{V}$ | $\leq 1200\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R500 | 500V $\pm 20\%$ | $\leq 1100\text{V}$ | $\leq 1200\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R550 | 550V $\pm 20\%$ | $\leq 1300\text{V}$ | $\leq 1400\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |
| 2R600 | 600V $\pm 20\%$ | $\leq 1300\text{V}$ | $\leq 1400\text{V}$ | $> 10\text{G}\Omega$ | 5KA | 100A | 5A | 12days | E505240 |

4 Electrical Characteristics

Continue

| Part Number | DC Holdover Voltage | On-State Voltage | Impulse discharge current 8/20μs | Peak Current @10/350 μs | Arc voltage at 1 A | Glow to arc transition current | Glow voltage | Weight |
|-------------|-----------------------|------------------|-------------------------------------|----------------------------|--------------------|--------------------------------|--------------|--------|
| | Per ITU K.12 (<150ms) | Nominal @ 1A | 1time | 1time | V | A | V | g |
| 2R75 | <52V | 20V | 10KA | 1KA | ~ 10V | < 0.8A | ~ 55V | ~1.5g |
| 2R90 | <52V | 20V | 10KA | 1KA | ~ 12V | < 0.8A | ~ 55V | ~1.5g |
| 2R140 | <80V | 20V | 10KA | 1KA | ~ 12V | < 0.5A | ~ 60V | ~1.5g |
| 2R150 | <80V | 20V | 10KA | 1KA | ~ 12V | < 0.5A | ~ 60V | ~1.5g |
| 2R200 | <135V | 20V | 10KA | 1KA | ~ 12V | < 0.5A | ~ 60V | ~1.5g |
| 2R230 | <135V | 20V | 10KA | 1KA | ~ 12V | < 0.5A | ~ 60V | ~1.5g |
| 2R250 | <135V | 20V | 10KA | 1KA | ~ 12V | < 0.5A | ~ 60V | ~1.5g |
| 2R260 | <135V | 20V | 10KA | 1KA | ~ 12V | < 0.5A | ~ 60V | ~1.5g |
| 2R300 | <150V | 20V | 10KA | 1KA | ~ 12V | < 0.2A | ~ 60V | ~1.5g |
| 2R350 | <150V | 20V | 10KA | 1KA | ~ 12V | < 0.2A | ~ 60V | ~1.5g |
| 2R400 | <150V | 20V | 10KA | 1KA | ~ 12V | < 0.2A | ~ 60V | ~1.5g |
| 2R420 | <150V | 20V | 10KA | 1KA | ~ 12V | < 0.2A | ~ 60V | ~1.5g |
| 2R470 | <150V | 20V | 10KA | 1KA | ~ 12V | < 0.2A | ~ 60V | ~1.5g |
| 2R500 | <150V | 20V | 10KA | 1KA | ~ 12V | < 0.2A | ~ 60V | ~1.5g |
| 2R550 | <150V | 20V | 10KA | 1KA | ~ 12V | < 0.2A | ~ 60V | ~1.5g |
| 2R600 | <150V | 20V | 10KA | 1KA | ~ 12V | < 0.2A | ~ 60V | ~1.5g |

1:At delivery AQL 0.65 leave II Military Standard 105 E

2:In ionized mode

3:Test according to ITU-T Rec.k.12

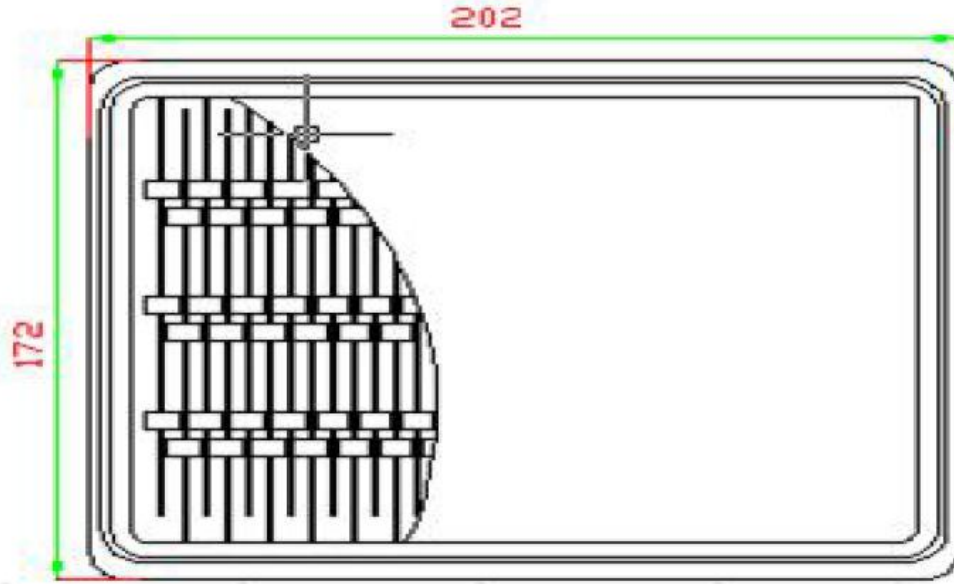
Environmental resistance

| | |
|------------------------|--------------|
| Storage temperature: | -40℃----+90℃ |
| Operating temperature: | -40℃----+90℃ |
| Electrode: | Tin Plated |

Example Part Number: HA2R8-90L

| | | |
|----|---|--------------------|
| HA | = | HUAAN |
| 2 | = | 2 Electrode device |
| R | = | Gas Discharge Tube |
| 8 | = | 8mm Diameter |
| 90 | = | 90V |
| L | = | Low Surge 5KA |

Packaging Information



Packaging Quantity

| Part Number | Quantity | |
|--------------|----------|------------|
| | Per Tray | Per Carton |
| 2Rxxx Series | 100PCS | 5000PCS |