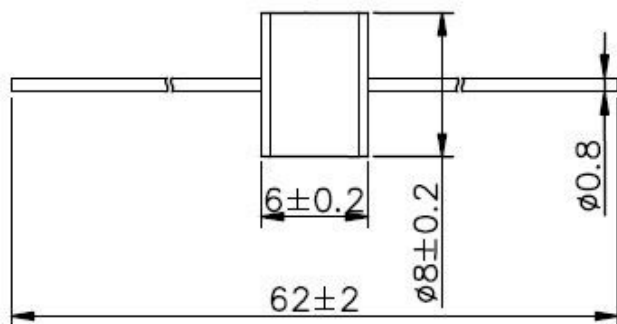
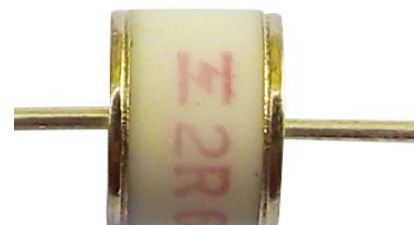


## 2-Electrode Gas Discharge Tubes

10KA

1: Dimension(mm)

Fast Delivery Time



### 2:Main Applications

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

- 100% Lead-Free(RoHs Compliant )
- Non-Radioactive
- Low capacitance ( $\leq 1\text{pF}$ )
- Fast Response-time,High Insulation Resistance.
- Small size :Ø8x6(mm)

### 4 Electrical Characteristics

| Part Number | DC<br>Spark-over<br>Voltage<br>@ 100V/S | Impulse<br>Spark-over<br>Voltage<br>@100V/ $\mu\text{s}$ | Impulse<br>Spark-over<br>Voltage<br>@1KV/ $\mu\text{s}$ | Insulation<br>Resistance | Impulse<br>discharge<br>current(8/<br>20 $\mu\text{s}$ ) | AC discharge<br>current<br>(50Hz,1s,10ti<br>mes) | Capacitance<br>(1MHz) |
|-------------|-----------------------------------------|----------------------------------------------------------|---------------------------------------------------------|--------------------------|----------------------------------------------------------|--------------------------------------------------|-----------------------|
|             | V                                       | V                                                        | V                                                       | G $\Omega$               | 10 Times                                                 | A                                                | PF                    |
| HA2R75D     | 75 $\pm 20\%$                           | <500                                                     | <600                                                    | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R90D     | 90 $\pm 20\%$                           | <500                                                     | <600                                                    | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R150D    | 150 $\pm 20\%$                          | <500                                                     | <600                                                    | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R230D    | 230 $\pm 20\%$                          | <600                                                     | <700                                                    | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R250D    | 250 $\pm 20\%$                          | <600                                                     | <700                                                    | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R350D    | 350 $\pm 20\%$                          | <900                                                     | $\leq 1000$                                             | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R400D    | 400 $\pm 20\%$                          | <900                                                     | $\leq 1000$                                             | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R420D    | 420 $\pm 20\%$                          | <900                                                     | $\leq 1000$                                             | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R470D    | 470 $\pm 20\%$                          | <1100                                                    | $\leq 1200$                                             | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R600D    | 600 $\pm 20\%$                          | <1200                                                    | $\leq 1300$                                             | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R800D    | 800 $\pm 20\%$                          | <1300                                                    | $\leq 1400$                                             | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |
| HA2R1000D   | 1000 $\pm 20\%$                         | <1400                                                    | $\leq 1500$                                             | >1                       | 10KA                                                     | 10                                               | $\leq 1$              |

Packing Quantity : 100PCS

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## Cross Reference List (Ø8x6mm)

| HUAAN<br>Gas Discharge Tube<br>Part Number | Cross Reference                                 |                                             |                                                 |
|--------------------------------------------|-------------------------------------------------|---------------------------------------------|-------------------------------------------------|
|                                            | Littelfuse<br>Gas Discharge Tube<br>Part Number | Bourns<br>Gas Discharge Tube<br>Part Number | TDK EPCOS<br>Surge Arrester<br>Part Number      |
| HA2R75D                                    | SL1011B075 A<br>SL1411A075A                     | 2045-07-BLF                                 |                                                 |
| HA2R90D                                    | SL1011B090 A<br>SL1411A090A                     | 2045-09-BLF                                 | N81-A90X<br>B88069X4880S102                     |
| HA2R150D                                   | SL1011B150 A<br>SL1411A150 A                    |                                             |                                                 |
| HA2R230D                                   | SL1011B230 A<br>SL1411A230A                     | 2045-23-BLF                                 | N81-A230X<br>B88069X4930S102<br>B88069X4930T502 |
| HA2R250D                                   | SL1011B250 A<br>SL1411A250A                     | 2045-25-BLF                                 |                                                 |
| HA2R350D                                   | SL1011B350 A<br>SL1411A350A                     | 2045-35-BLF                                 | N81-A350X<br>B88069X4920S102<br>B88069X4920T502 |
| HA2R400D                                   |                                                 | 2045-40-BLF                                 |                                                 |
| HA2R420D                                   |                                                 |                                             |                                                 |
| HA2R470D                                   | SL1411A470A                                     | 2045-47-BLF                                 |                                                 |
| HA2R600D                                   | SL1411A600A                                     |                                             | N81-A600X<br>B88069X2830S102<br>B88069X2830T502 |
| HA2R800D                                   |                                                 |                                             |                                                 |
| HA2R1000D                                  |                                                 |                                             |                                                 |

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