# 9,5x11,5mm
# No. A470/A471/A472

This product is not recommended for new designs. Please refer to Littelfuse series SL1024B.




## 3-electrode (20kA/20A) High Discharge Series

### Features

Non-radioactive
Lead Free
Failsafe Option

### Applications

Telecommunication
Data Transmission
Subscriber protection
Underground cables

**Standard**
UL-497B
complies to ITU-T K.12 (formerly CCITT)
complies to DIN 57845/VDE 0845

**Approvals**
UL-rec.

### WebLinks

**Further info see:**
http://www.wickmanngroup.com/download/orderinfo_surgearr.pdf
http://www.wickmanngroup.com/download/crossref_surgearr.pdf

## Specifications

**Packaging**
A470: 00=Bulk (2.000 pcs.)
A471: 00=Bulk (100 pcs.)
A472: 04=Tray (100 pcs.)

**Materials**
Housing: Ceramic
Gas: non-radioactive
Leads: tin plated

**Arc Voltage @ 1A**
~ 35V

**Transition Glow to Arc @**
~ 1.0A

**Operating temperature**
-40°C to +90°C

**Climatic Category**
complies to IEC 60068-1
+40°C, 21 days, <93% humidity

**Soldering characteristics**
complies to IEC 60068-2-20

**Soldering Heat Resistance**
complies to IEC 60068-2-58

**Transverse Delay Time**
complies to ITU-T K.12
< 0.2µs

**Marking**
Ⓦ, Type, Nom. Voltage, Date

**Unit Weight**
ca. 3.0g

### Characteristics

| Type/ Order Code | DC sparkover voltage | Tolerance | Impulse sparkover (1kV/µs) typ. | Glow Voltage (@100 Vdc) | Insulation Resistance E1/M;E2/M | Capacitance (@1MHZ) Impulse E1/M;E2/M | 8/20µs Nominal Impulse Discharge Current (10 times) E1+E2/M | 8/20µs Single Discharge Discharge Current (1 time) E1+E2/M | AC Nominal Discharge Current (50Hz; 1s; (10 times) E1+E2/M | AC Alternating Current (50Hz; 9 cycles) E1+E2/M | Approval UL-rec. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A470 S0 0260 01 00 | 260V | +/- 20% | < 200V | ~ 200V | > 10GΩ | < 1.5 pF | 20kA | 30kA | 20A | 130A | |
| A470 S0 0350 13 00<br>A471 S0 0350 13 04<br>A472 S0 0350 13 04 | 350V | -15%/+40% | < 200V | ~ 200V | > 10GΩ | < 1.5 pF | 20kA | 30kA | 20A | 130A | • |
| A470 S0 0600 01 00<br>A471 S0 0600 01 04<br>A472 S0 0600 01 04 | 600V | +/- 20% | < 200V | ~ 200V | > 10GΩ | < 1.5 pF | 20kA | 30kA | 20A | 130A | • |
| A470 S0 0650 12 00<br>A471 S0 0650 12 04<br>A472 S0 0650 12 04 | 650V | +/- 25% | < 200V | ~ 200V | > 10GΩ | < 1.5 pF | 20kA | 30kA | 20A | 130A | • |

other values on request

Specifications are subject to change without notice.

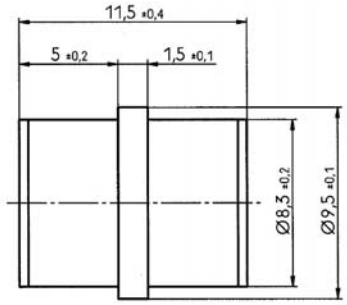
| Order Example | Qty. | Order-Number | Type | Failsafe Option | Sparkover Volt. | Tolerance | Packaging |
|---|---|---|---|---|---|---|---|
| | | | A470 | S0 | 0260 | 01 | 00 |



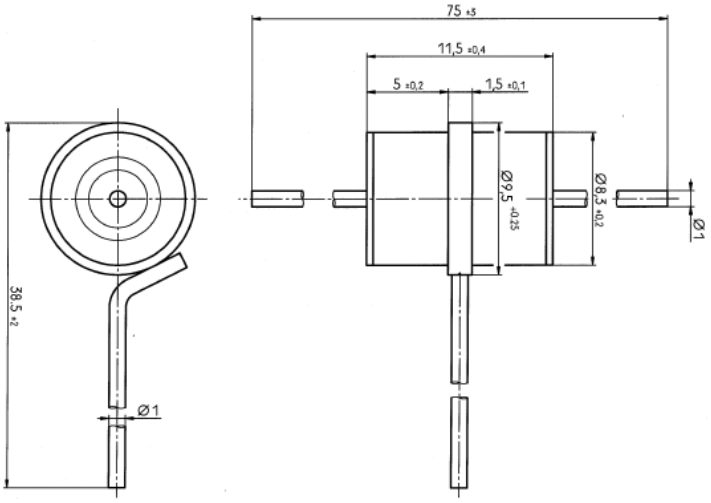
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# Dimensions (mm) A470/A471/A472

## A470




## A471




## A472

