

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/orderinfo_surgearr.pdf)  
[http://www.wickmanngroup.com/  
download/crossref\\_surgearr.pdf](http://www.wickmanngroup.com/download/crossref_surgearr.pdf)



RoHS



## 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 voltage	DC sparkover	Tolerance voltage	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
A470 S0 0260 01 00	260V	+/- 20%	< 200V	~ 200V	> 10GΩ	< 1.5 pF	20kA	30kA	20A	130A	
A470 S0 0350 13 00 A471 S0 0350 13 04 A472 S0 0350 13 04	350V	-15%/+40%	< 200V	~ 200V	> 10GΩ	< 1.5 pF	20kA	30kA	20A	130A	•
A470 S0 0600 01 00 A471 S0 0600 01 04 A472 S0 0600 01 04	600V	+/- 20%	< 200V	~ 200V	> 10GΩ	< 1.5 pF	20kA	30kA	20A	130A	•
A470 S0 0650 12 00 A471 S0 0650 12 04 A472 S0 0650 12 04	650V	+/- 25%	< 200V	~ 200V	> 10GΩ	< 1.5 pF	20kA	30kA	20A	130A	•

other values on request

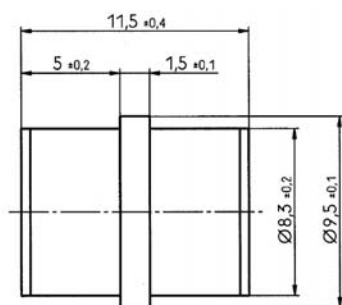
Specifications are subject to change without notice.

Order  
Example

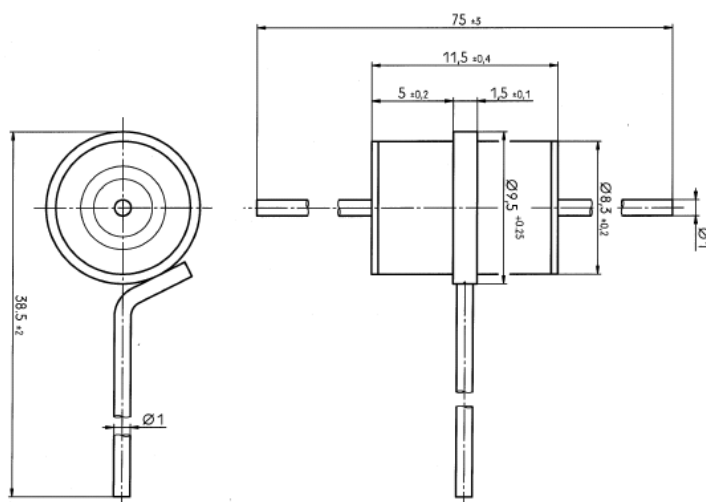
Qty.	Order- Number	Type	Failsafe Option	Sparkover Volt.	Tolerance	Packaging
		A470	SO	0260	01	00

## Dimensions (mm) A470/A471/A472

### A470



### A471



### A472

