

8x10mm No. A450/A451/A452

This product is not recommended for new designs. Please refer to Littelfuse series SL1021A.



3-electrode (20kA/10A) Enhanced 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

A450: 00=Bulk (2.000 pcs.)
A450/F: 00_Bulk (500 pcs.)
A451: 04=Tray (250 pcs.)
A452/F: 04=Tray (500 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. 2.5g

Characteristics

Type/ Order Code	DC sparkover voltage	Tolerance	Impulse sparkover voltage (1kV/µs) typ.	Glow Voltage	Insulation Resistance (@100 Vdc) E1/M;E2/M	Capacitance (@1MHZ) E1/M;E2/M	8/20µs Nominal Impulse Discharge Current (10 times) E1+E2/M	8/20µs Single Impulse Discharge Current (1 time) E1+E2/M	AC Nominal Discharge Current (50Hz; 1s; (10 times) E1+E2/M	AC Alternating Discharge Current (50Hz; 9 cycles) E1+E2/M	Approval
A450 S0 0230 01 00 A450 F0 0230 01 00** A451 S0 0230 01 04 A452 S0 0230 01 04 A452 F0 0230 01 04**	230V	+/- 20%	< 450V	~ 200V	> 10GΩ	< 1.5 pF	20kA	25kA	10A	50A	•
A450 S0 0250 01 00** A451 S0 0250 01 04 A452 S0 0250 01 04 A452 F0 0250 01 04**	250V	+/- 20%	< 550V	~ 200V	> 10GΩ	< 1.5 pF	20kA	25kA	10A	50A	•
A450 S0 0350 01 00 A451 S0 0350 01 04 A452 S0 0350 01 04 A452 F0 0350 01 04**	350V	+/- 20%	< 600V	~ 200V	> 10GΩ	< 1.5 pF	20kA	25kA	10A	50A	•
A450 S0 0420 11 00 A450 F0 0420 11 00** A452 S0 0420 11 04	420V	-17/+30%	< 800V	~ 200V	> 10GΩ	< 1.5 pF	20kA	25kA	10A	50A	

other values on request

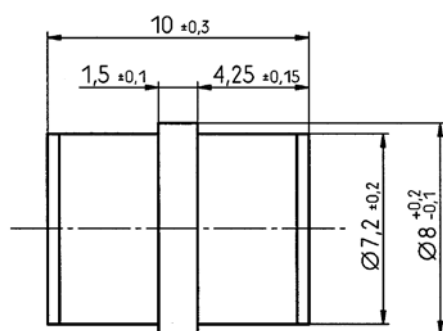
** with failsafe

Specifications are subject to change without notice.

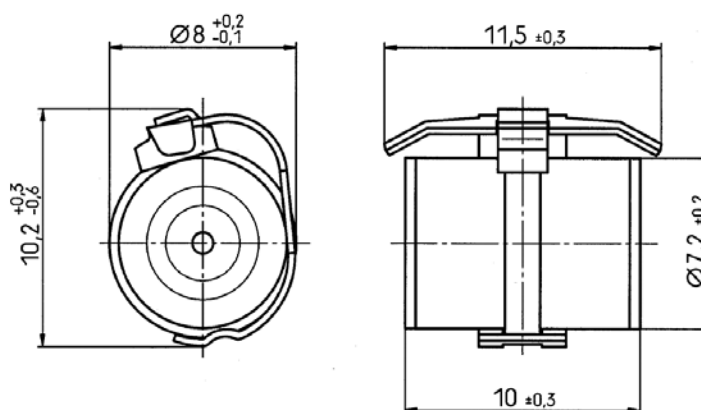
Qty.	Order- Number	Type	Failsafe Option	Sparkover Volt.	Tolerance	Packaging
		A450	S0	0230	01	00

Dimensions (mm) A450/A451/A452

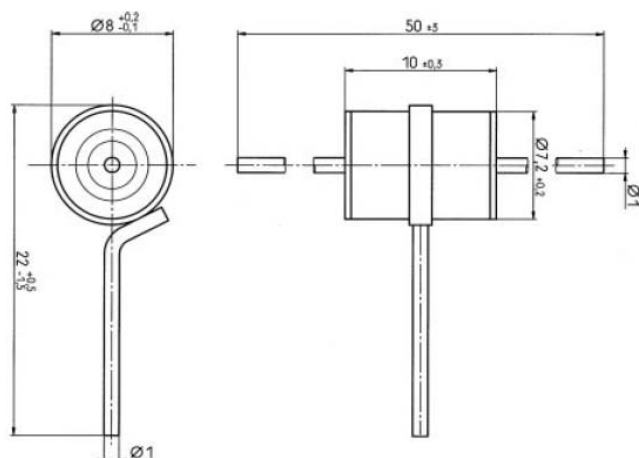
A450



A450 with Failsafe



A451



A452 with Failsafe

A452

