

5x5mm

No. A500/A501/A502

This product is not recommended  
for new designs. Please refer to  
Littelfuse series SL1002.



2-electrode (5kA/5A)

Mini Series

## Features

Non-radioactive  
Lead Free  
For limited space applications  
Smallest 2-electrode Gas tube

## Applications

Telecommunication  
Computer Equipment  
Sensor Protection  
TV Cable Modem

## 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)

## Specifications

## Packaging

A500: 00=Bulk (1.000 pcs.)  
A501: 01=Reel (1.000 pcs.)  
A502: 02=Blister Tape (900 pcs.)

## Materials

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

## Arc Voltage @ 1A

~ 15V

## Transition Glow to Arc

@ ~ 0.8A

## 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 (A501)

## Soldering Heat Resistance

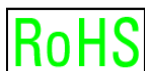
complies to IEC 60068-2-58

## Marking

 Type, Nom. Voltage, Date

## Unit Weight

ca. g



## Characteristics

Type/ Order Code	DC sparkover voltage	Tolerance	Impulse sparkover voltage (1kV/μs) typ.	Glow Voltage	Insulation Resistance (@100 Vdc or @50Vdc for 90V)	Capacitance (@1MHZ)	8/20μs Nominal Impulse Discharge Current (10 times)	8/20μs Single Impulse Discharge Current (1 time)	AC Nominal Discharge Current (50Hz; 1s; (10 times)	AC Alternating Discharge Current (50Hz; 9 cycles)	Approval
A500 S0 0090 01 00 A501 S0 0090 01 01 A502 S0 0090 01 02	90V	+/- 20%	< 550V	~ 60V	> 1GΩ	< 1.0 pF	5kA	10kA	5A	10A	•
A500 S0 0230 01 00 A501 S0 0230 01 01 A502 S0 0230 01 02	230V	+/- 20%	< 600V	~ 60V	> 1GΩ	< 1.0 pF	5kA	10kA	5A	10A	•
A500 S0 0350 01 00 A501 S0 0350 01 01 A502 S0 0350 01 02	350V	+/- 20%	< 800V	~ 60V	> 1GΩ	< 1.0 pF	5kA	10kA	5A	10A	•
A500 S0 0600 01 00 A501 S0 0600 01 01 A502 S0 0600 01 02	600V	+/- 20%	< 1.350V	~ 60V	> 1GΩ	< 1.0 pF	5kA	10kA	5A	10A	•

other values on request

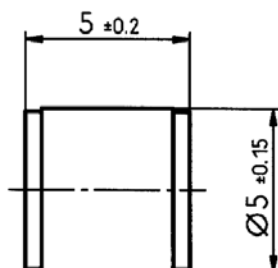
Specifications are subject  
to change without notice.

Order  
Example

Qty.	Order- Number	Type	Failsafe Option	Sparkover Volt.	Tolerance	Packaging
		A500	S0	0090	01	00

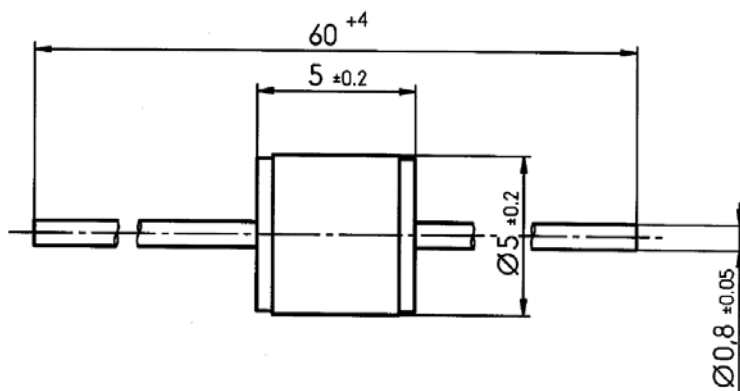
## Dimensions (mm) A500/A501/A502

A500

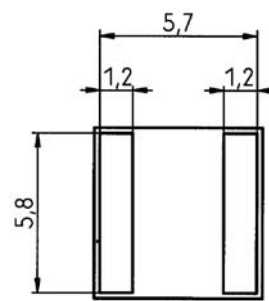
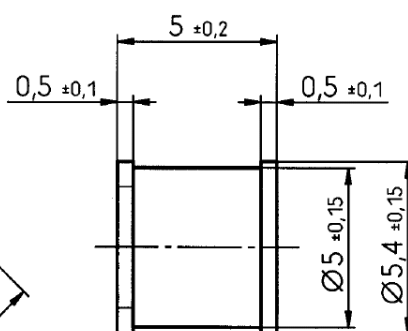
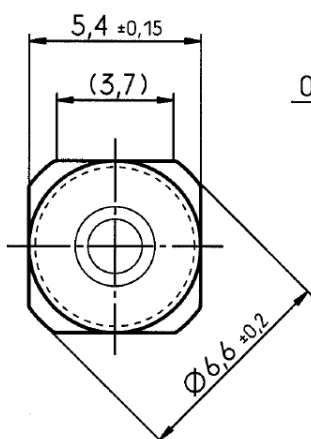


Nickel plated

A501



A502



Pad Layout