## S500-V (GDB-V)* (axial leads)

## S500 (GDB)*

**Specifications**

**Description:** Fast-acting, low-breaking capacity fuse.

**Construction:** Glass tube, nickel-plated brass endcaps (silver-plated end-caps, 32-125mA).

**Ratings:**

Volts — 250Vac (or less)
— 32Vdc (self certified)
Amps — 32mA-10A
IR — See catalog table

**Agency information:** CE, cURus, SEMKO, VDE, BSI, IMQ, CCC.
See data sheet for complete agency information. Not all approvals apply to all ratings.

### Features and benefits

- Fast-acting for maximum protection, conforms to IEC 60127-2 (160mA-10A).

### Typical applications

- Electronic circuits

### Catalog numbers (amps)

| Catalog numbers | IR (amps) | $I^2t$ | Max voltage drop (mV) |
|---|---|---|---|
| S500-32-R | 35 | 0.000047 | 3200 |
| S500-40-R | 35 | 0.00011 | 2500 |
| S500-50-R | 35 | 0.00020 | 2400 |
| S500-63-R | 35 | 0.00057 | 2000 |
| S500-80-R | 35 | 0.0012 | 1200 |
| S500-100-R | 35 | 0.003 | 1100 |
| S500-125-R | 35 | 0.005 | 1000 |
| S500-160-R | 35 | 0.008 | 2000 |
| S500-200-R | 35 | 0.016 | 1700 |
| S500-250-R | 35 | 0.028 | 1400 |
| S500-315-R | 35 | 0.058 | 1300 |
| S500-400-R | 35 | 0.018 | 1100 |
| S500-500-R | 35 | 0.018 | 220 |
| S500-630-R | 35 | 0.035 | 220 |
| S500-800-R | 35 | 0.067 | 190 |
| S500-1-R | 35 | 0.60 | 200 |
| S500-1.25-R | 35 | 0.84 | 200 |
| S500-1.6-R | 35 | 1.6 | 190 |
| S500-2-R | 35 | 4.2 | 150 |
| S500-2.5-R | 35 | 6.1 | 150 |
| S500-3.15-R | 35 | 13 | 130 |
| S500-4-R | 40 | 22 | 130 |
| S500-5-R | 50 | 42 | 120 |
| S500-6.3-R | 63 | 69 | 120 |
| S500-8-R | 80 | - | 120 |
| S500-10-R | 100 | — | 120 |

### Options

Axial leads, put “V” in P/N,
*When ordering GDB version, do not add “-R” suffix to part number.

**Data Sheet: 2052 (S500), 2015 (GDB)**

## S501-V (GDA-V)* (axial leads)

## S501 (GDA)*

**Specifications**

**Description:** Fast-acting, high-breaking capacity fuse.

**Construction:** Ceramic tube, nickel-plated brass endcaps (silver-plated endcaps 50mA-400mA).

**Ratings:**

Volts — 250Vac (or less)
— 32Vdc (self certified)
Amps — 50mA-10A**
IR — 1500A @ 250Vac

**Agency information:** CE, cURus, SEMKO, VDE, IMQ, CCC, CSA, BSI.

See data sheet for complete agency information. Not all approvals apply to all ratings.

### Features and benefits

- Fast-acting for maximum protection.
- High break capacity for use in higher fault energy electronic circuitry.
- Conforming to IEC standards.

### Typical applications

- Electronic circuits

### Catalog numbers (amps)

| Catalog numbers | $I^2t$ | Typical voltage drop (mV) |
|---|---|---|
| S501-50-R | 0.0017 | 9000 |
| S501-63-R | 0.0005 | 3300 |
| S501-80-R | 0.0011 | 2600 |
| S501-100-R | 0.0018 | 2300 |
| S501-125-R | 0.0037 | 1900 |
| S501-160-R | 0.008 | 1600 |
| S501-200-R | 0.020 | 1350 |
| S501-250-R | 0.027 | 1300 |
| S501-315-R | 0.010 | 1400 |
| S501-400-R | 0.018 | 1200 |
| S501-500-R | 0.038 | 1050 |
| S501-630-R | 0.064 | 1200 |
| S501-800-R | 0.097 | 490 |
| S501-1-R | 0.146 | 330 |
| S501-1.25-R | 0.313 | 297 |
| S501-1.6-R | 0.748 | 239 |
| S501-2-R | 2.0 | 205 |
| S501-2.5-R | 3.9 | 190 |
| S501-3.15-R | 8.1 | 160 |
| S501-4-R | 14 | 160 |
| S501-5-R | 25 | 155 |
| S501-6.3-R | 48 | 150 |
| S501-8-R | N/A | N/A |
| S501-10-R | N/A | N/A |

### Options

Axial leads, put “V” in P/N.
*When ordering GDA version, do not add “-R” suffix to part number.
**GDA is not available above 6.3A.

**Data Sheet: 2051 (S501), 2014 (GDA)**

## S505-V (axial leads)

## S505

**Specifications**

**Description:** Time-delay, high-breaking capacity fuse.

**Construction:** Ceramic tube, silver-plated brass endcaps.

**Ratings:**

Volts — 250Vac (or less)
— 32Vdc (self certified)
Amps — 500mA-12A
IR — 1500A @ 250Vac

**Agency information:** UL, CSA, SEMKO, VDE, BSI, IMQ, PSE/JET, CCC, EK, FIMKO.

See data sheet for complete agency information. Not all approvals apply to all ratings.

### Features and benefits

- Time-delay performance ideal for inductive circuits.
- Conforming to IEC standards.

### Typical applications

- Electronic circuits

### Catalog numbers (amps)

| Catalog numbers | Typical $I^2t$ | Max voltage drop (mV) |
|---|---|---|
| S505-500-R | 0.188* | 295 |
| S505-800-R | 0.632* | 189 |
| S505-1-R | 1.28 | 152.5 |
| S505-1.25-R | 2.22 | 150 |
| S505-1.6-R | 6.78 | 125 |
| S505-2-R | 9.60 | 118.5 |
| S505-2.5-R | 16.60 | 115 |
| S505-3.15-R | 36.60 | 102.5 |
| S505-4-R | 38.45* | 86.5 |
| S505-5-R | 71.30* | 77.5 |
| S505-6.3-R | 197 | 75 |
| S505-8-R | 311 | 75 |
| S505-10-R | 397 | 72 |
| S505-12-R | 713.7* | 77 |

*The typical $I^2t$ value was measured at 10 times of rated current under DC.

### Options

Axial leads, put “V” in P/N.

**Data Sheet: 2037**

# Electronic – PCB and small dimension fuses

5 x 20mm IEC fuses

## S505H (S505H-V)*

**(axial leads)**

**Specifications**
**Description:** Time-delay, high-breaking capacity fuse.
**Construction:** Ceramic tube, nickel-plated brass endcaps.
**Ratings:**

Volts — 600Vac/400Vdc
— 500mA-5A
— 6.3A-10A
— 500Vac/400Vdc
Amps — 500mm-10A
IR — 35A @ 250Vac

RoHS

**Agency information:** cURus, CCC, CQC, TUV, PSE/JET.

See data sheet for complete agency information. Not all approvals apply to all ratings.

### Features and benefits

- Time-delay, high breaking capacity
- Conforming to IEC standards

### Typical applications

- Power supplies - adapters
- Desktops/notebooks

### Catalog numbers (amps)

| Catalog numbers | Typical $I^2t$ ($A^2s$)[1] | Max voltage drop (mV)[3] |
|---|---|---|
| S505H-500-R | 0.188 | 295 |
| S505H-800-R | 0.632 | 189 |
| S505H-1-R | 1.28 | 153 |
| S505H-1.25-R | 2.22 | 150 |
| S505H-1.6-R | 6.78 | 125 |
| S505H-2-R | 11.44 | 128 |
| S505H-2.5-R | 24.23 | 126 |
| S505H-3.15-R | 43.55 | 121 |
| S505H-4-R | 38.45 | 90 |
| S505H-5-R | 71.3 | 89 |
| S505H-6.3-R | 111.4 | 80 |
| S505H-8-R | 228.2 | 76 |
| S505H-10-R | 349.5 | 72 |

1. Typical Pre-Arc $I^2t$: Measured at $10I_n$ DC.
2. - Breaking Capacity of 250VAC/1500A is tested by all agency approvals, test condition is 250Vac, PF: 0.7-0.8.
   - Breaking Capacity of Max. voltage is tested by UL, PF:1.
   - Breaking Capacity Test of DC is tested by UL under Capacitor Bank 4800mF (for 400V, 1500A) 2400mF (for 400V, 500A).
3. Typical Voltage Drop: Voltage drop is measured under ambient 20°C with rated current.

### Options

Axial leads, put “V” in P/N.

**Data Sheet: 4406**

## S506-V (GDC-V)* (axial leads)

## S506 (GDC)*

**Specifications**
**Description:** Time-delay, low-breaking capacity fuse.
**Construction:** Glass tube, nickel-plated brass endcaps.
**Ratings:**

Volts — 250Vac (or less)
— 32Vdc (self certified)
Amps — 32mA-15A**
IR — 35A @ 250Vac

RoHS

**Agency information:** UR, CSA, cURus, SEMKO, VDE, BSI, IMQ, PSE/JET, CCC.

See data sheet for complete agency information. Not all approvals apply to all ratings.

### Features and benefits

- Time-delay compatibility for inductive circuits
- Conforming to IEC standards

### Typical applications

- Electronic circuits

### Catalog numbers (amps)

| Catalog numbers | Typical $I^2t$ | Max voltage drop (mV) |
|---|---|---|
| S506-32-R | 0.0051 | 1050 |
| S506-40-R | 0.0072 | 920 |
| S506-50-R | 0.0095 | 800 |
| S506-63-R | 0.021 | 760 |
| S506-80-R | 0.038 | 580 |
| S506-100-R | 0.045 | 490 |
| S506-125-R | 0.063 | 390 |
| S506-160-R | 0.093 | 320 |
| S506-200-R | 0.114 | 340 |
| S506-250-R | 0.265 | 270 |
| S506-315-R | 0.621 | 250 |
| S506-400-R | 0.872 | 210 |
| S506-500-R | 0.827 | 140 |
| S506-630-R | 1.33 | 150 |
| S506-800-R | 2.78 | 75 |
| S506-1-R | 6.45 | 87.5 |
| S506-1.25-R | 10.05 | 86 |
| S506-1.6-R | 21.7 | 82 |
| S506-2-R | 31.6 | 77 |
| S506-2.5-R | 59.4 | 72.5 |
| S506-3.15-R | 96.4 | 68.5 |
| S506-4-R | 71.8 | 67 |
| S506-5-R | 142.5 | 60.5 |
| S506-6.3-R | 237.6 | 54 |
| S506-8-R | 255.8 | 55 |
| S506-10-R | 450 | 54 |
| S506-12.5-R | 1019.5 | 45 |
| S506-15-R | 1091.7 | 65.5 |

### Options

Axial leads, put “V” in P/N.
*When ordering GDC version, do not add “-R” suffix to part number.
**GDC series is not available above 6.3A.

**Data Sheet: 2016 (GDC), 4332 (S506)**