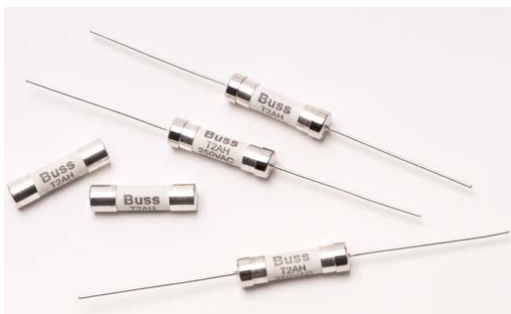


S505H

5 mm x 20 mm 400 Vdc/500-600 Vac time-delay fuses



Product features

- 400 Vdc/500-600 Vac rating
- Time-delay, high breaking capacity
- 5 mm x 20 mm physical size
- Ceramic tube with plated end cap construction
- Designed to IEC 60127-2, Standard, Sheet 5
- RoHS Compliant, lead free and halogen free
- Optional axial leads available

| Electrical Characteristics | | | | | | | | |
|----------------------------|-------------------|-------------------|--------------------|-------|-----------------|-------|------------------|--------|
| Amps | 1.5I _n | 2.1I _n | 2.75I _n | | 4I _n | | 10I _n | |
| | Min min. | Max min. | Min ms | Max s | Min ms | Max s | Min ms | Max ms |
| <1A | >60 | <30 | >250 | <80 | >50 | <5 | >5 | <150 |
| 1A-3.15A | >60 | <30 | >750 | <80 | >95 | <5 | >10 | <150 |
| 4A-6.3A | >60 | <30 | >750 | <80 | >150 | <5 | >10 | <150 |
| 8A-10A | >30 | <30 | >750 | <80 | >150 | <5 | >10 | <150 |

Specifications

| Catalog Number | Voltage Rating Vac | Max. Voltage Rating | | Interrupting Rating (A) Under | | | Typical DC Cold Resistance Ω ³ | Typical Voltage Drop (mV) ⁴ | Typical Value I ² t (A ² s) ⁵ | Agency Approvals | | | | |
|----------------|--------------------|---------------------|-----|-------------------------------|-----------|---------|---|--|--|------------------|-----|-----|---------|--------------------|
| | | AC | DC | 250 Vac | Max Volts | 400 Vdc | | | | 250Vac | | | | |
| | | | | | | | | | | TUV | CQC | CCC | PSE/JET | cURus ⁷ |
| S505H-500-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.507 | 295 | 0.188 | | | | | x |
| S505H-800-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.237 | 189 | 0.632 | | | | | x |
| S505H-1-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.14 | 153 | 1.28 | | | | X | x |
| S505H-1.25-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.108 | 150 | 2.22 | | | | X | x |
| S505H-1.6-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.07 | 125 | 6.78 | | | | X | x |
| S505H-2-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.055 | 128 | 11.44 | X | X | X | X | x |
| S505H-2.5-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.04 | 126 | 24.23 | X | X | X | X | x |
| S505H-3.15-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.031 | 121 | 43.55 | X | X | X | X | x |
| S505H-4-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.019 | 90 | 38.45 | X | X | X | X | x |
| S505H-5-R | 250 | 600 | 400 | 1500 | 100 | 1500 | 0.015 | 89 | 71.3 | X | X | X | X | x |
| S505H-6.3-R | 250 | 500 | 400 | 1500 | 100 | 1500 | 0.011 | 80 | 111.4 | X | X | X | X | x |
| S505H-8-R | 250 | 500 | 400 | 1500 | 100 | 1500 | 0.007 | 76 | 228.2 | X | X | X | X | x |
| S505H-10-R | 250 | 500 | 400 | 1500 | 100 | 1500 | 0.006 | 72 | 349.5 | X | X | X | X | x |

1. Max. Voltage rating: Base on the breaking capacity test according to UL.
 2. - Breaking Capacity of 250 VAC/1500 A is tested by all agency approvals, test condition is 250 Vac, 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 4800 mF (for 400 V, 1500 A), 2400 mF (for 400 V, 500 A).

3. Cold Resistance: Measure at <10% rated current.
 4. Typical Voltage Drop: Voltage drop is measured under ambient 20 °C with rated current
 5. Typical Pre-Arc I²t: Measured at 10In DC
 6. Does not apply to axial leaded versions.
 7. 600/500 Vac, 400 Vdc.

Applications

- Power supplies - adapters
- Desktops/notebooks
- TVs / Displays
- Set top boxes
- Lighting ballasts
- Battery chargers
- Printers
- Game systems
- Air conditioners

Agency information

S505H-XXX-R (Ferrule)

- cURus approval: Guide JFHR2, File E56412 and Guide JFHR8, File E56412
- CCC: 2A-4A, Cert. No.: 2010010207395946; 5A-6.3A Cert. No.: 2010010207390567
- CQC Approval: 8A-10A, Cert. No.: CQC10012043350
- TUV Approval: 2A-10A, Cert. No.: R50172128
- PSE Approval: 1A-5A, Cert. No.: JET1641-31003-1009; 6.3A-10A, Cert. No: JET1641-31003-1011

S505H-V-XXX-R (Axial Leads)

- PSE Approval: 1A-5A, Cert. No.: JET1641-31003-1010; 6.3A-10A, Cert. No: JET1641-31003-1012
- cURus approval: Guide JFHR2, File E56412 and Guide JFHR8, File E56412



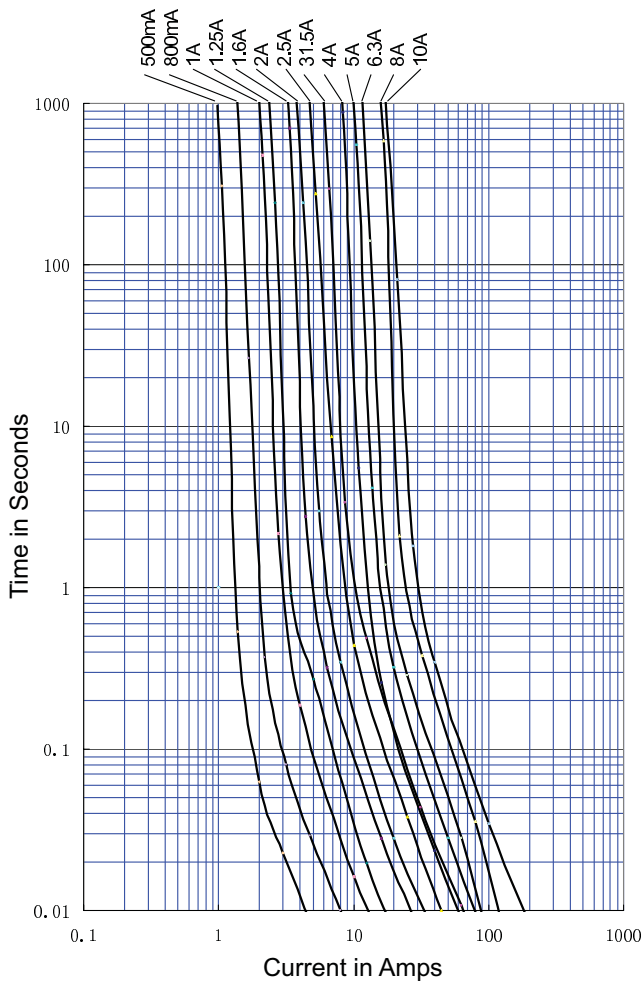
Powering Business Worldwide

Dimensions - mm

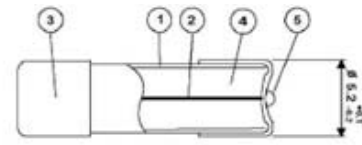


A (ref): 0.65 mm (0.5 A - 6.3 A), 0.80 mm (8 A-10 A)

Time-Current Curves



Construction



500-800mA

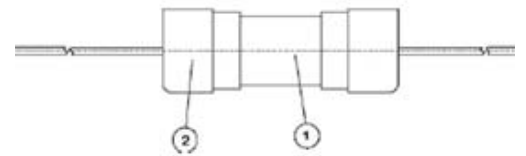


1-1.6 Amps



2 Amps & Above

1. Ceramic Tube
2. Wire Fuse Element
3. Plated Fuse Cap
4. Filler
5. Solder
6. Eyelet



Axial Leaded Versions

1. S505H-XXX-R
2. Axial Leaded Cap

Wave Soldering Parameters

Note: These devices are NOT recommended for IR or convection reflow processes.



- Reservoir Temperature: $260^{\circ}\text{C} \pm 3^{\circ}\text{C}$
- Soldering Time: 10 seconds max.

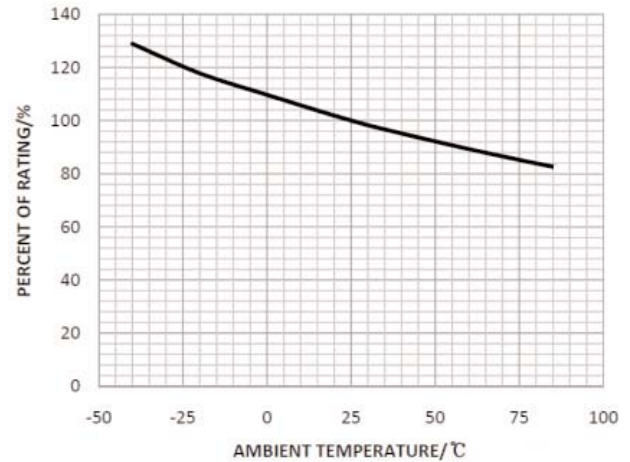
Recommended Hand Solder Parameters

- Soldering Iron Tip Temperature: $350^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- Heating Time: 5 seconds max.

Operating Temperature Range

- -40°C to $+85^{\circ}\text{C}$ (see temperature derating curve below for percentage of fuse rating per ambient temperature)

Temperature Derating Curve



| Packaging Code | |
|-----------------------|--|
| Packaging Code Prefix | Description |
| BK- | 100 fuses packed into a cardboard carton with flaps folded |
| BK1- | 1000 fuses packed into a poly bag |
| TR2- | 1500 axial leaded fuses on tape and reel |
| Option Code | |
| Option Code | Description |
| -V | Axial leads – copper tinned wire with nickel plated brass end caps |
| -R | RoHS compliant version |

Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

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