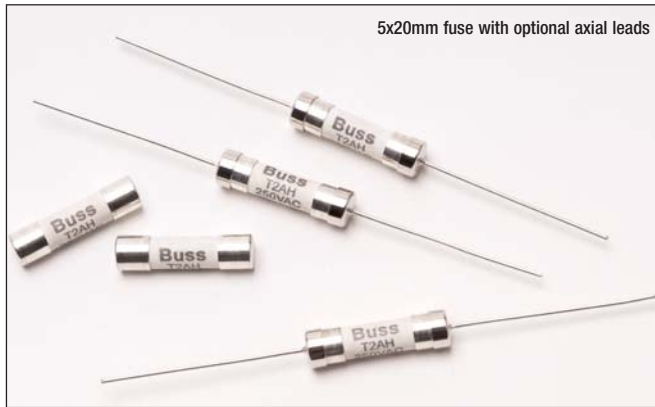


400Vdc/500-600Vac Time-Delay 5x20mm Fuses S505H Series



Description

400Vdc/500-600Vac Time-delay 5x20mm ceramic tube fuses with electroplated end caps. The S505H Series provides higher voltage ratings and breaking capacities than standard IEC 60127-2 fuses.

Features

- Time-delay, high breaking capacity
- 5 x 20mm 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

Applications

- Power supplies - adapters
- Desktops/notebooks
- TVs / Displays
- Set top boxes
- Lighting ballasts
- Battery chargers
- Printers B-SS 5MM fuse 2007-02
- 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

Part Number System: TR2- S505H -V -2 -R

Package Code Prefix _____
Series Number _____
Option Code _____
Fuse Amps _____
RoHS Compliance _____

Ordering

Specify product by package code prefix and option code.

Specifications

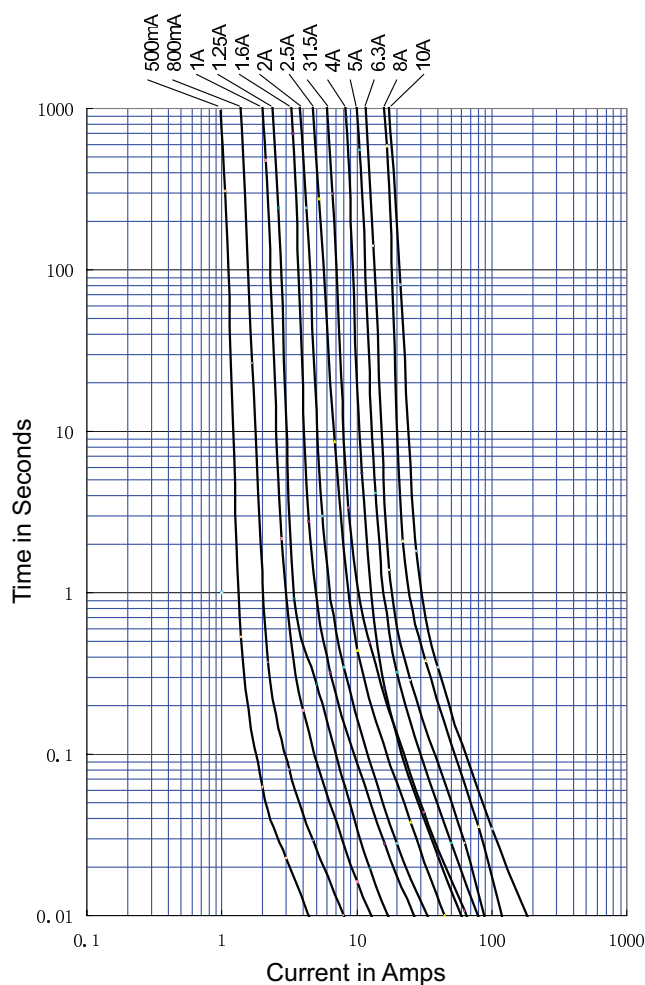
Catalog Number	Voltage Rating Vac	Max. Voltage Rating¹		Interrupting Rating (A)² Under			Typical DC Cold Resistance Ω³	Typical Voltage Drop (mV)⁴	Typical Value I²t (A²s)⁵	Agency Approvals				
		AC	DC	250 Vac	Max Volts	400 Vdc				250Vac				
										TUV⁶	CQC⁶	CCC⁶	PSE/JET	cURus⁷
S505H-500-R	250	600	400	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
S505H-2.5-R	250	600	400	1500	100	1500	0.04	126	24.23	X		X	X	x
S505H-3.15-R	250	600	400	1500	100	1500	0.031	121	43.55	X		X	X	x
S505H-4-R	250	600	400	1500	100	1500	0.019	90	38.45	X		X	X	x
S505H-5-R	250	600	400	1500	100	1500	0.015	89	71.3	X		X	X	x
S505H-6.3-R	250	500	400	1500	100	1500	0.011	80	111.4	X		X	X	x
S505H-8-R	250	500	400	1500	100	1500	0.007	76	228.2	X	X		X	x
S505H-10-R	250	500	400	1500	100	1500	0.006	72	349.5	X	X		X	x

1. Max. Voltage rating: Base on the breaking capacity test according to UL.
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).

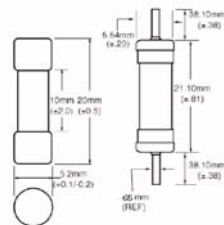
3. Cold Resistance: Measure at <10% rated current.
4. Typical Voltage Drop: Voltage drop is measured under ambient 20°C with rated current
5. Typical Pre-Arc I²t: Measured at 10I_n DC
6. Does not apply to axial leaded versions.
7. 600/500Vac, 400Vdc.

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

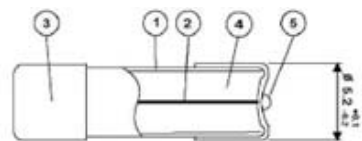
Time-Current Curves



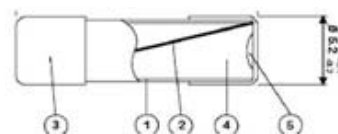
Dimensions - mm



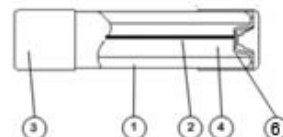
Construction



500-800mA

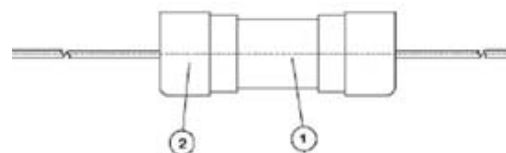


1-1.6 Amps



2 Amps & Above

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

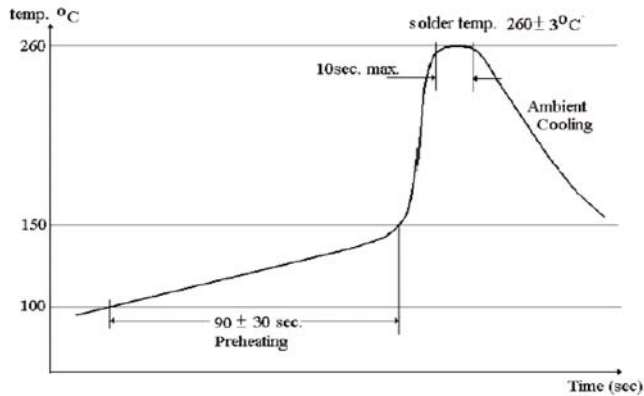


Axial Leaded Versions

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°C ± 3°C
- Soldering Time: 10 seconds max.

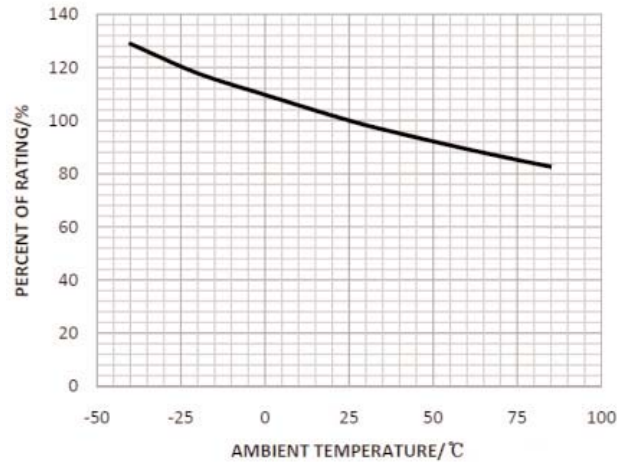
Recommended Hand Solder Parameters

- Soldering Iron Tip Temperature: 350°C ± 5°C
- Heating Time: 5 seconds max.

Operating Temperature Range

- -40°C to +85°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

The only controlled copy of this Data Sheet is the electronic read-only version located on the Cooper Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Cooper Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Life Support Policy: Cooper Bussmann 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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cooper Bussmann:

[BK1-S505H-1.25-R](#) [BK1-S505H-1.6-R](#) [BK1-S505H-2.5-R](#) [BK1-S505H-6.3-R](#)

Eaton:

[BK1-S505H-10-R](#) [BK1-S505H-1-25-R](#) [BK1-S505H-1-6-R](#) [BK1-S505H-1-R](#) [BK1-S505H-2-5-R](#) [BK1-S505H-2-R](#)
[BK1-S505H-3-15-R](#) [BK1-S505H-4-R](#) [BK1-S505H-500-R](#) [BK1-S505H-5-R](#) [BK1-S505H-6-3-R](#) [BK1-S505H-800-R](#)
[BK1-S505H-8-R](#) [BK-S505H-V-10-R](#) [BK-S505H-V-1-25-R](#) [BK-S505H-V-1-6-R](#) [BK-S505H-V-1-R](#) [BK-S505H-V-2-5-R](#)
[BK-S505H-V-2-R](#) [BK-S505H-V-3-15-R](#) [BK-S505H-V-4-R](#) [BK-S505H-V-500-R](#) [BK-S505H-V-5-R](#) [BK-S505H-V-6-3-R](#)
[BK-S505H-V-800-R](#) [BK-S505H-V-8-R](#) [TR2-S505H-V-10-R](#) [TR2-S505H-V-1-25-R](#) [TR2-S505H-V-1-6-R](#) [TR2-S505H-V-](#)
[1-R](#) [TR2-S505H-V-2-5-R](#) [TR2-S505H-V-2-R](#) [TR2-S505H-V-3-15-R](#) [TR2-S505H-V-4-R](#) [TR2-S505H-V-500-R](#) [TR2-](#)
[S505H-V-5-R](#) [TR2-S505H-V-6-3-R](#) [TR2-S505H-V-800-R](#) [TR2-S505H-V-8-R](#) [TR2-S505H-V-1.25-R](#) [TR2-S505H-V-1.6-](#)
[R](#) [TR2-S505H-V-2.5-R](#) [TR2-S505H-V-3.15-R](#) [TR2-S505H-V-6.3-R](#) [BK-S505H-V-6.3-R](#) [BK-S505H-V-2.5-R](#) [BK-](#)
[S505H-V-1.25-R](#) [BK-S505H-V-1.6-R](#) [BK-S505H-V-3.15-R](#)