Effective Noember 2020 Supersedes October 2020

S505H **RoHS** FRĒE 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									
	1.51 _n	2.11 _n	2.75I _n		4I _n		10I _n		
	Min	Max	Min	Max	Min	Max	Min	Max	
Amps	min.	min.	ms	S	ms	S	ms	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

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 (500 mA - 10 A)

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- CCC Approval: 500 mA 10 A, Cert. No.: 2020970207000249
- TUV Approval: 2 A 10 A, Cert. No.: R50297821
- PSE Approval: 1 A 5 A, Cert. No.: JET1641-31003-1017 6.3 A - 10 A, Cert. No: JET1641-31003-1023

S505H-V-XXX-R (Axial Leads)

- PSE Approval: 1 A 5 A, Cert. No.: JET1641-31003-1018; 6.3 A - 10 A, Cert. No: JET1641-31003-1024
- cURus approval: Guide JFHR2, File E56412 and Guide JFHR8, File E56412 (500 mA - 10 A)
- CCC Approval: 500 mA 10 A, Cert. No.: 2020970207000249

				Interrupting rating (A)		Typical	Typical							
	Voltage	Max.	voltage	under max voltage		DC cold	voltage	Typical	Agency approvals			S		
Catalog	rating	rating		250 Max 400		resistance	drop	value	250 Vac					
number	Vac	AC	DC	Vac	Volts	Vdc	Ω^3	(mV)*	l²t (A²s)⁵	TUV⁵		CCC	PSE/JET	cURus
S505H-500-R	250	600	400	1500	100	1500	0.507	295	0.188			Х		х
S505H-800-R	250	600	400	1500	100	1500	0.237	189	0.632			Х		х
S505H-1-R	250	600	400	1500	100	1500	0.14	153	1.28			Х	Х	х
S505H-1.25-R	250	600	400	1500	100	1500	0.108	150	2.22			Х	Х	х
S505H-1.6-R	250	600	400	1500	100	1500	0.07	125	6.78			Х	Х	х
S505H-2-R	250	600	400	1500	100	1500	0.055	128	11.44	Х		Х	Х	х
S505H-2.5-R	250	600	400	1500	100	1500	0.04	126	24.23	Х		Х	Х	х
S505H-3.15-R	250	600	400	1500	100	1500	0.031	121	43.55	Х		Х	Х	х
S505H-4-R	250	600	400	1500	100	1500	0.019	90	38.45	Х		Х	Х	х
S505H-5-R	250	600	400	1500	100	1500	0.015	89	71.3	Х		Х	Х	х
S505H-6.3-R	250	500	400	1500	100	1500	0.011	80	111.4	Х		Х	Х	х
S505H-8-R	250	500	400	1500	100	1500	0.007	76	228.2	Х		Х	Х	х
S505H-10-R	250	500	400	1500	100	1500	0.006	72	349.5	Х		Х	Х	х

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. (500 mA -5 A @ 600Vac, 6.3 A- 10 A @ 500 Vac)

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.

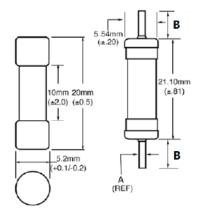
4. Typical voltage drop: voltage drop is measured under ambient +20 °C with rated current

5. Typical pre-arc I²t: Measured at 10In DC 6. Does not apply to axial leaded versions

7. 600/500 Vac, 400 Vdc.

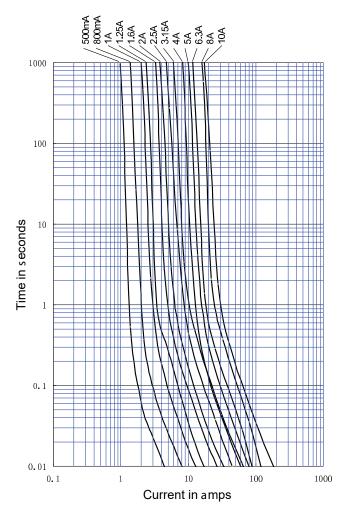
S505H 5 mm x 20 mm 400 Vdc/500-600 Vac time-delay fuses

Dimensions - mm

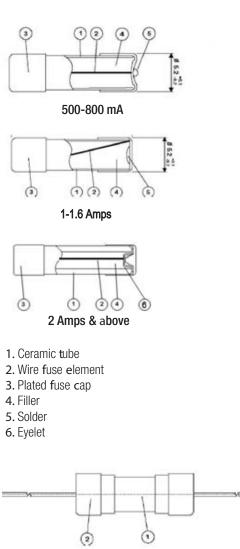


Dimension A (REF): 0.65mm (0.5A-6.3A), 0.80mm (8A-10A) Dimension B: BK/ packaging, 38.1± 0.38mm TR2/ packaging, 15.8 ± 2mm

Time-current curves



Construction



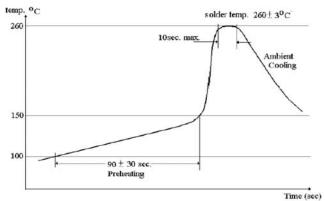
Axial leaded versions 1. S505H-XXX-R

2. Axial leaded cap

2 www.eaton.com/electronics

Wave soldering parameters (axial lead only)

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

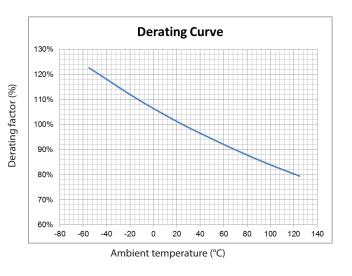
- Soldering iron tip temperature: +350°C ± 5°C
- Heating time: 5 seconds max.

Powerina Business Worldwide

Operating temperature range

 -55 °C to +125 °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					

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