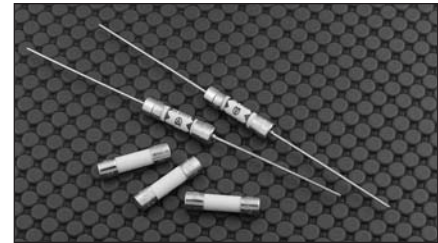


# 5 x 20mm Fuses

## S505 Series, Time-Delay, Ceramic Tube

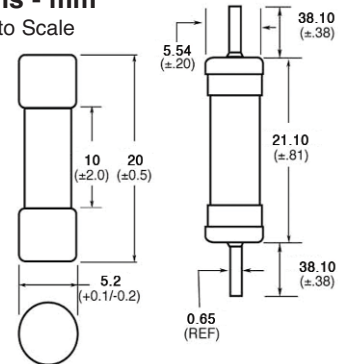
### Description

- Time-delay, high breaking capacity
- Optional axial leads available
- Ceramic tube, silver-plated endcap construction (500mA-800mA), nickel-plated brass endcap construction (1-12A)
- Optional sleeve is flexible flouropolymer (UL flammability rating VW-1)
- 5 x 20mm physical size
- Designed to IEC 60127-2 (500mA-10A) & extension 12A



### Dimensions - mm

Drawing Not to Scale



	Electrical Characteristics									
	1.5 I <sub>n</sub>		2.1 I <sub>n</sub>		2.75 I <sub>n</sub>		4 I <sub>n</sub>		10 I <sub>n</sub>	
I <sub>n</sub>	min	max	min	max	min	max	min	max	min	max
<1A	60 min	30 min	250 ms	80s	50 ms	5s	5 ms	150 ms		
1A-3.15A	60 min	30 min	750ms	80s	95 ms	5s	10 ms	150 ms		
4A-6.3A	60 min	30 min	750ms	80s	150 ms	5s	10 ms	150 ms		
8A-12A	30 min	30 min	750ms	80s	150 ms	5s	10 ms	150 ms		

### Agency Information

- UL Recognized Card: Guide JDYX2, File E19180
- CSA Component Acceptance: File 53787
- SEMKO: File 500496, 816547
- VDE: File 40014091, 40024352, 40023140
- BSI: File KM55676
- IMQ: File 00100, 00529
- PES+JET: File 1641-31003-1004, 1641-31003-1011
- CCC: File 2002010207011295
- EK: File SU05011-4012A, SU0511-5014A
- FIMKO: File FI21555

- Ratings above 4A have a maximum 0.81mm diameter lead
- With TR2 packaging code, lead wire length is 19.05mm

### Ordering

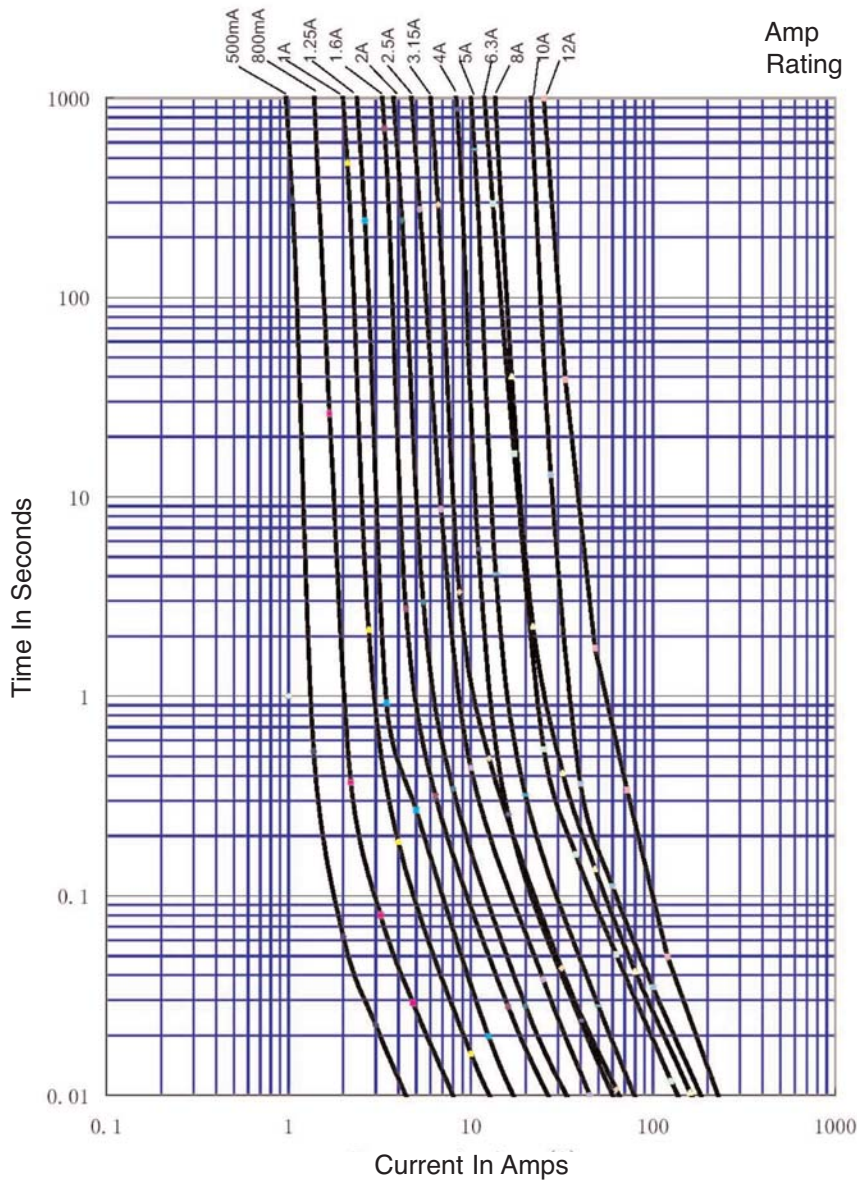
- Specify packaging code
  - Insert packaging code prefix before part number. E.g. BK (or BK1)/S505-1-R
- Specify option codes if desired
  - For axial leads, insert "V" between catalog series and amp rating. E.g., BK/S505-V-1-R

### Specifications

Part Number	Voltage Rating Vac	Interrupting Rating (amps) @ Rated Vac (50Hz)*	Typical DC Cold Resistance (Ω)**	Typical Pre-arching I <sub>t</sub> AC***	Typical Voltage Drop (mV)†	Agency Approvals								
						IMQ	VDE	SEMKO	UL	CCC	PSEJET	CSA	EK	BSI
S505-500-R	250	1500	0.5070	0.188†	295	X	X	X	X	X		X		X
S505-800-R	250	1500	0.2370	0.632†	189	X	X	X	X	X		X		X
S505-1-R	250	1500	0.1401	1.28	152.5	X	X	X	X	X	X	X	X	X
S505-1.25-R	250	1500	0.1075	2.22	150	X	X	X	X	X	X	X	X	X
S505-1.6-R	250	1500	0.0700	6.78	125	X	X	X	X	X	X	X	X	X
S505-2-R	250	1500	0.0545	9.60	118.5	X	X	X	X	X	X	X	X	X
S505-2.5-R	250	1500	0.0395	16.60	115	X	X	X	X	X	X	X	X	X
S505-3.15-R	250	1500	0.0305	36.60	102.5	X	X	X	X	X	X	X	X	X
S505-4-R	250	1500	0.0185	38.45†	86.5	X	X	X	X	X	X	X	X	X
S505-5-R	250	1500	0.0131	71.30†	77.5	X	X	X	X	X	X	X	X	X
S505-6.3-R	250	1500	0.0033	197	75	X	X	X	X	X	X	X	X	X
S505-8-R	250	1500	0.0067	311	75	X	X	X	X		X	X	X	X
S505-10-R	250	1500	0.0061	397	72	X	X	X	X		X	X	X	X
S505-12-R	250	1000	0.0053	713.7†	77		X		X					

\* Interrupting ratings (500mA to 10A were measured at 70% to 80% PF on.  
 \*\* Typical DC Cold Resistance (Measured At <10% of rated current).  
 \*\*\* Typical Pre-Arching I<sub>t</sub> (Measured at listed interrupting rating and rated voltage if not specified).  
 † The typical I<sub>t</sub> value was measured at 10 times of rated current under DC.  
 ‡ Typical Voltage Drop (voltage drop was measured at 20°C ambient temperature at rated current).

S505-R(500mA to 12A) Nominal Current Vs. Time Curve



Packaging Code	
Packaging Code Prefix	Description
BK	100 fuses packed into a cardboard carton
BK1	1,000 fuses packed into a poly bag
TR2	1,500 fuses packed into tape on a reel (19.05mm lead wire length)

Option Code	
Option Code	Description
V	Axial leads - copper tinned wire with nickel plated brass overcaps

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