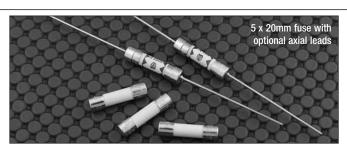


# 5 x 20mm Time-Delay, Ceramic Tube Fuses S505 Series









#### Description

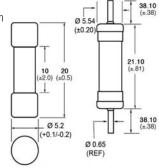
- Time-delay, high breaking capacity
- · Available with optional axial leads
- Ceramic tube, silver-plated endcap construction (500mA-800mA), nickel-plated brass endcap construction (1-12A)
- Optional sleeve is flexible flouropolymer (UL flammability rating VW-1).
  Consult factory for details.
- 5 x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

Electrical Characteristics									
	1.5l <sub>n</sub>	2.11 <sub>n</sub>	2.75I <sub>n</sub>		4I <sub>n</sub>		10I <sub>n</sub>		
Amps	Min min.	Max min.	Min ms	Max s	Min ms	Max s	Min ms	Max ms	
<1A	60	30	250	80s	50	5s	5	150	
1A-3.15A	60	30	750	80s	95	5s	10	150	
4A-6.3A	60	30	750	80s	150	5s	10	150	
8A-12A	30	30	750	80s	150	5s	10	150	

## **Specifications**

## Dimensions - mm

- Ratings above 6.3A have a maximum 0.81mm diameter lead
- With TR2 packaging code, leadwire length is 19.05mm



#### **Agency Information**

- UL Recognized Card: Guide JDYX2, File E19180, JDYX8, File E19180
- CSA Component Acceptance: File 53787
- SEMKO: File 816547, 1119019
- VDE: File 40014091, 40024352, 40023140
- BSI: File KM55676
- IMQ: File CA03.00100 and CA03.00529
- PES+JET: File 1641-31003-1009, 1641-31003-1010, 1641-31003-1011, 1641-31003-1012, 1641-31003-2001, 1641-31003-2002
- CCC: File 2002010207011295, CQC11012061930
- KC-Mark: File SU05011-4012A, SU05011-5004A

#### **Ordering**

- Specify packaging code (insert packaging code prefix before part number)
  e.g., BK- (or BK1-/TR2-) 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

Voltage Interrupting		Interrupting	Typical DC Cold Typical Typical				Agency Information							
Product Code	Rating AC	Rating at Rated Voltage (50Hz) AC <sup>1</sup>	Resistance $(\Omega)^2$	Pre-arching I <sup>2</sup> t (A <sup>2</sup> s)AC <sup>3</sup>	Voltage Drop (mV)⁴	IMQ⁵	VDE	SEMK0	cURus	CCC/ CQC⁵	PSE/ JET	CSA⁵	KC⁵	BSI
S505-500-R	250	1500	0.5070	0.188 <sup>x</sup>	295	Х	X	Х	Х	X		Χ		Х
S505-800-R	250	1500	0.2370	0.632 <sup>x</sup>	189	Х	Х	Х	Х	Χ		Χ		Χ
S505-1-R	250	1500	0.1401	1.28	152.5	Х	Х	Х	Х	Χ	Χ	Χ	Χ	Х
S505-1.25-R	250	1500	0.1075	2.22	150	X	Х	Х	Х	Х	Х	Χ	Χ	X
S505-1.6-R	250	1500	0.0700	6.78	125	X	Χ	Х	Х	Χ	Χ	Х	Χ	Х
S505-2-R	250	1500	0.0545	9.60	118.5	Χ	Х	Х	Х	Χ	Χ	Χ	Χ	Х
S505-2.5-R	250	1500	0.0395	16.60	115	X	Х	Χ	X	Χ	Χ	Χ	Χ	X
S505-3.15-R	250	1500	0.0305	36.60	102.5	Χ	Χ	Χ	Х	Χ	X	Χ	Χ	X
S505-4-R	250	1500	0.0185	38.45 <sup>x</sup>	86.5	Х	Х	Х	Х	Χ	Χ	Χ	Χ	Χ
S505-5-R	250	1500	0.0131	71.30 <sup>x</sup>	77.5	X	Χ	Χ	X	Χ	Χ	Χ	Χ	Χ
S505-6.3-R	250	1500	0.0102	111 <sup>x</sup>	75	X	Χ	Χ	Х	Χ	X	Χ	Χ	X
S505-8-R	250	1500	0.0077	228 <sup>x</sup>	73	Χ	Χ	Χ	Х	X <sub>6</sub>	Χ	Χ	Χ	X
S505-10-R	250	1500	0.0061	397	72	X	Χ	Χ	X	X <sub>6</sub>	X	Χ	Χ	Χ
S505-12-R	250	1000	0.0053	713.7 <sup>x</sup>	77		Х		Х					

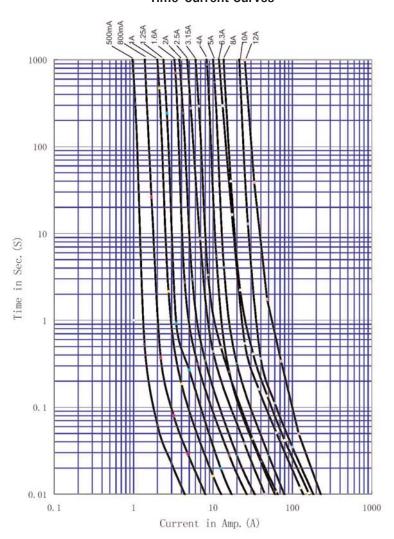
Interrupting ratings: 500mA to 10A were measured at 70% to 80% PF on AC,12A was measured at 100% PF on AC.

- 2. Typical DC Cold Resistance (measured at <10% of rated current).
- Typical Pre-Arching I<sup>a</sup>t (measured at listed interrupting rating and rated voltage if not specified);
  With "X" specified, the typical I<sup>a</sup>t value is measured at 10 times of rated current under DC.
- 4. Typical Voltage Drop (Voltage Drop was measured at 20°C ambient temperature at rated current).
- No room for "CSA" & "KC" on the fuse endcap for Non-V Rev. No room for "IMQ", "CQC' or "KC" on fuse endcap for -V Rev.
- 6. CQC only.





### **Time-Current Curves**



	Packaging Code					
Packaging Code Prefix	Prefix Description					
BK-	100 fuses packed into a cardboard carton					
BK1-	1000 fuses packed into a poly bag					
TR2-	1500 fuses on tape and reel (19.05mm leadwire length)					
	Option Code					
Option Code	Option Code Description					
-V	V Axial leads – copper tinned wire with nickel-plated brass endcaps					

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