COOPER Bussmann

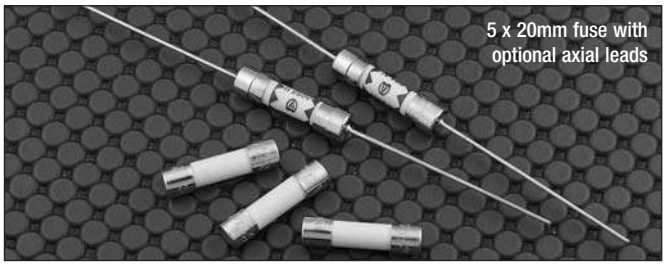
5 x 20mm Time-Delay, Ceramic Tube Fuses

S505 Series

HALOGEN HF FREE

RoHS

Pb



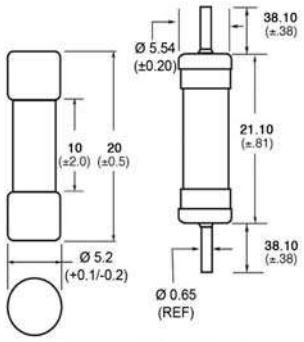
Description

- 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								
	$1.5I_n$	$2.1I_n$	$2.75I_n$		$4I_n$		$10I_n$	
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

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

Specifications

Product Code	Voltage Rating AC	Interrupting Rating at Rated Voltage (50Hz) AC[1]	Typical DC Cold Resistance (Ω)[2]	Typical Pre-arching I^2t (A^2s)AC[3]	Typical Voltage Drop (mV)[4]	Agency Information								
						IMQ[5]	VDE	SEMKO	cURus	CCC/ CQC[5]	PSE/ JET	CSA[5]	KC[5]	BSI
S505-500-R	250	1500	0.5070	0.188[X]	295	X	X	X	X	X		X		X
S505-800-R	250	1500	0.2370	0.632[X]	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[X]	86.5	X	X	X	X	X	X	X	X	X
S505-5-R	250	1500	0.0131	71.30[X]	77.5	X	X	X	X	X	X	X	X	X
S505-6.3-R	250	1500	0.0102	111[X]	75	X	X	X	X	X	X	X	X	X
S505-8-R	250	1500	0.0077	228[X]	73	X	X	X	X	X[6]	X	X	X	X
S505-10-R	250	1500	0.0061	397	72	X	X	X	X	X[6]	X	X	X	X
S505-12-R	250	1000	0.0053	713.7[X]	77		X		X					

1. 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).
3. Typical Pre-Arching I^2t (measured at listed interrupting rating and rated voltage if not specified); With "X" specified, the typical I^2t 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).
5. 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.

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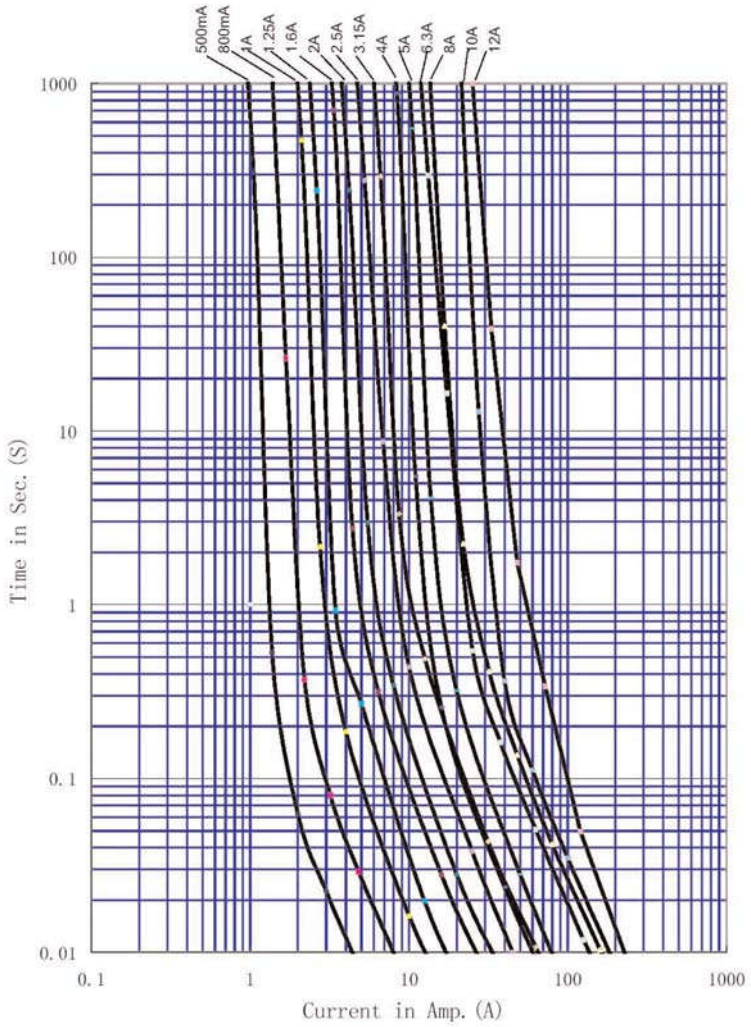
Time-Current Curves



Packaging Code	
Packaging Code 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	**Description**
-V	Axial leads – copper tinned wire with nickel-plated brass endcaps

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