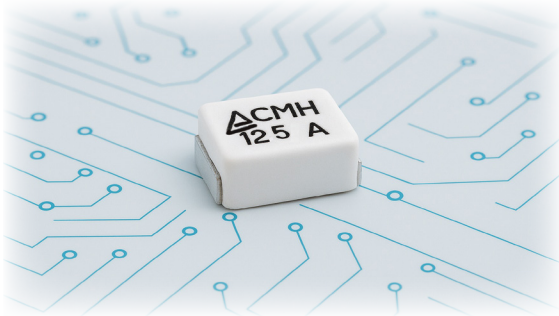


CMHF2822H High Power Surface Mount Fuse Series (High Inrush, 2822 Size)



Features

- Tin/Lead (Sn/Pb) or Tin (Sn) solder plated terminals.
- High interrupting current ratings for high power protection.
- Single small case size for current rating from 20A to 125A.
- High safety with ceramic body and special arc-extinguishing filler.
- Reliable functionality throughout prolonged use.
- Robust construction for maximum reliability.

Applications

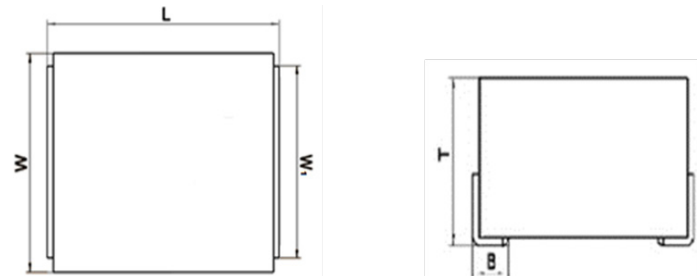
- Satellite/Spacecraft
- Aerospace
- Avionics
- Military
- Telecom DC/DC power
- Drones
- Battery and BMS
- PDU

Product Dimensions

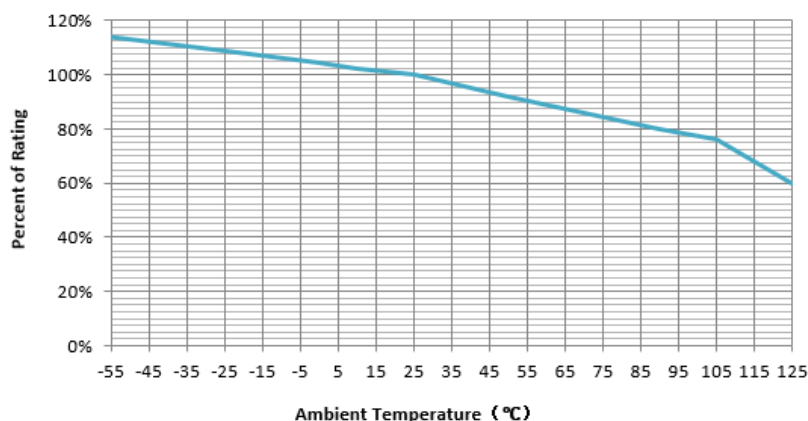
Dimension	Inch	mm
L	0.287 ± 0.012	7.3 ± 0.3
W	0.228 ± 0.008	5.8 ± 0.2
W1	0.201 ± 0.008	5.1 ± 0.2
T	0.165 ± 0.008	4.2 ± 0.2
B	0.051 ± 0.012	1.3 ± 0.3

Clearing Time Characteristics

% Of Current Rating	Clearing Time @25°C	
	Min.	Max.
100%	4 Hours	-
250%	-	60 Seconds

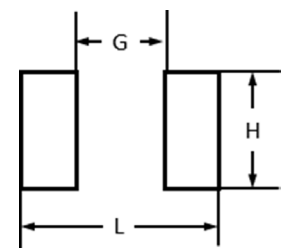


Derating Curve



Recommended Land Pattern

Dimension	2822	Unit
L	0.386 (9.8)	Inch (mm)
G	0.173 (4.4)	Inch (mm)
H	0.228 (5.8)	Inch (mm)



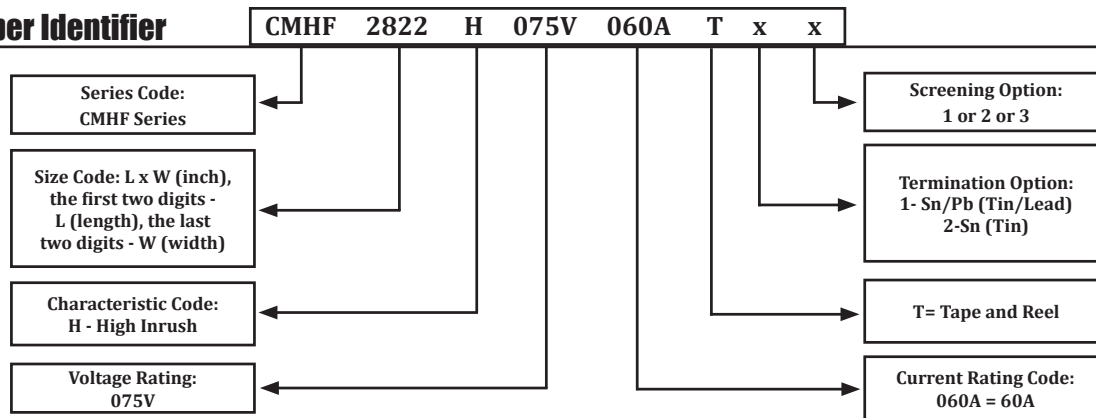
CMHF2822H High Power Surface Mount Fuse Series (High Inrush, 2822 Size)

Electrical Characteristics

Part Number	Voltage Rating (VDC)	Current Rating (Amps)	Interrupting Rating	Nominal DCR (mΩ)/1	Nominal I ² t (A ² s)/2	Marking Code/4
CMHF2822H125V020ATxx	125	20	300A @ 125VDC 1,000A @ 75VDC ³ 1,500A @ 48VDC ³	2.10	120	ΔCMH 20 R
CMHF2822H125V030ATxx		30		1.35	270	ΔCMH 30 R
CMHF2822H125V040ATxx		40		1.05	400	ΔCMH 40 R
CMHF2822H125V050ATxx		50		0.85	600	ΔCMH 50 R
CMHF2822H075V060ATxx	75	60	1,000A @ 75VDC ³ 1,500A @ 48VDC ³	0.74	900	ΔCMH 60 R
CMHF2822H075V070ATxx		70		0.61	1,400	ΔCMH 70 R
CMHF2822H075V080ATxx		80		0.53	2,000	ΔCMH 80 R
CMHF2822H075V090ATxx		90		0.48	2,400	ΔCMH 90 R
CMHF2822H075V100ATxx		100		0.44	3,600	ΔCMH 100 R
CMHF2822H075V125ATxx		125		0.38	6,000	ΔCMH 125 R

1- Measured at ≤10% rated current and 25°C ambient.
 2- Melting I²t at 1000% of current rating.
 3- Time constant of interrupting test less than 0.1ms.
 4- Laser marking character code.

Part Number Identifier



Standard Screening Options:

- Standard 100% visual inspection per MIL-PRF-23419/13, AS9102 FAIR, MIL-STD-1580 DPA.
- Option 2: Group A and B Screening per MIL-PRF-23419/13, AS9102 FAIR, MIL-STD-1580 DPA (see AEM detail specification for more details).
- Option 3: Group A, B, and C Screening per MIL-PRF-23419/13, AS9102 FAIR, MIL-STD-1580 DPA (see AEM Detail Specification for more details).

Termination Options:

- Tin/Lead (Sn/Pb)
- Tin (Sn)

General Specification:

- Operating temperature: -55°C to +125°C. (With de-rating)
- Storage Temperature: -55°C to +125°C.
- Moisture sensitivity level: MSL=1.



Certified to
AS9100D
ISO 9001:2015



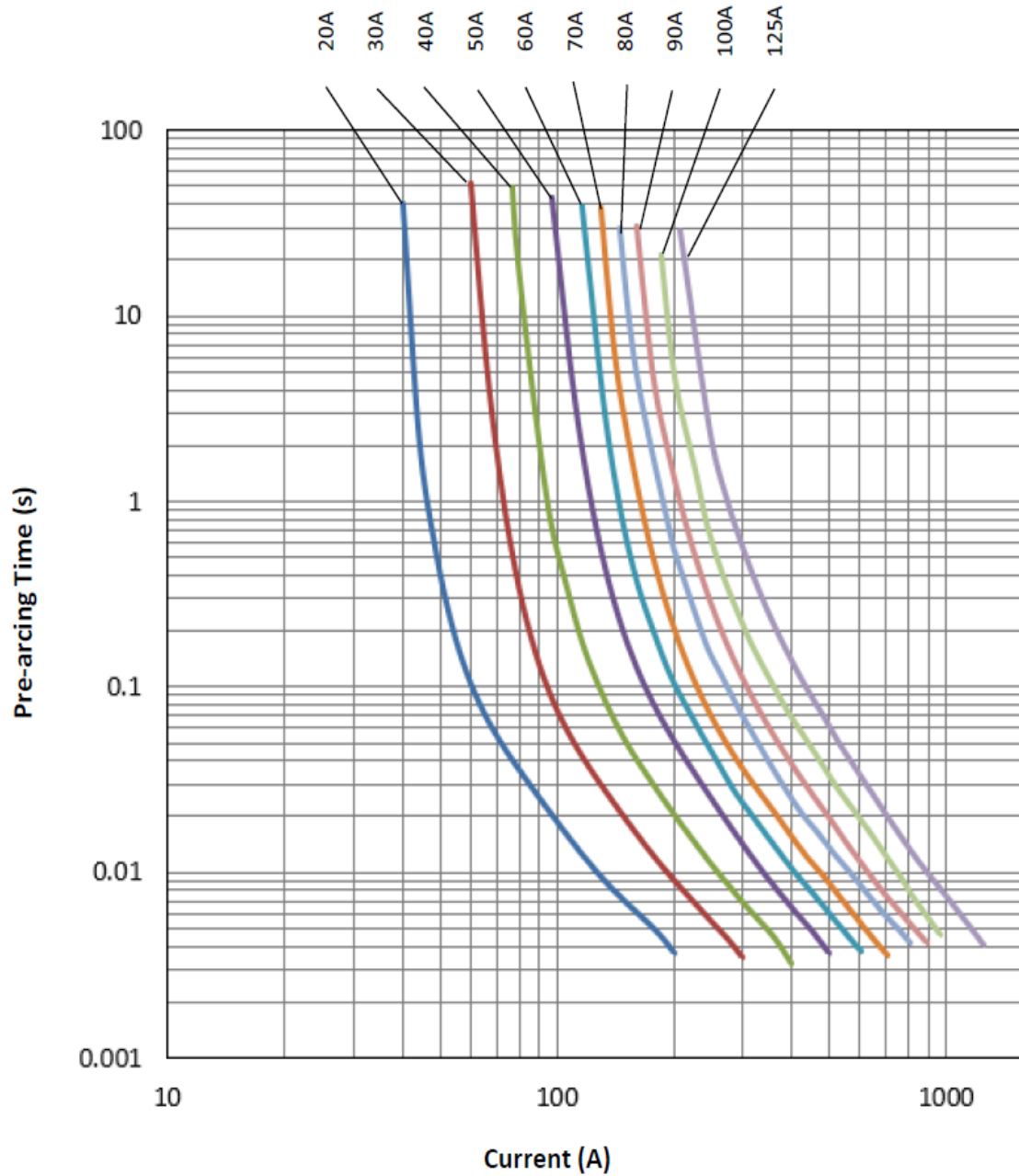
CMHF2822H High Power Surface Mount Fuse Series (High Inrush, 2822 Size)

Reliability Tests:

No.	Item	Condition	Criteria
1	Bend	2mm bend	DCR change within $\pm 20\%$, no mechanical damage
2	Solderability	245°C, 5 seconds	New solder coverage $\geq 95\%$
3	Soldering Heat Resistance	260°C, 10 seconds	DCR change within $\pm 20\%$, new solder coverage 75% minimum, no mechanical damage
4	Terminal Strength	Gradually apply 1.8 kg force to the bottom of the part for 60 seconds	DCR change within $\pm 20\%$, no mechanical damage
5	Life	80% rated current, 2000 hours, ambient temperature +20°C to +30°C	Voltage drop change within $\pm 20\%$
6	Thermal Shock	-65°C to +125°C, 100 cycles	DCR change within $\pm 20\%$, no mechanical damage
7	Mechanical Vibration	5–3000 Hz, 0.4 inch double amplitude or 30 G peak	DCR change within $\pm 20\%$, no mechanical damage
8	Mechanical Shock	1500 G, 0.5 milliseconds, half-sine shocks	DCR change within $\pm 20\%$, no mechanical damage
9	Salt Spray	5% salt solution, 48 hours exposure	DCR change within $\pm 20\%$, no excessive corrosion
10	Moisture Resistance	10 cycles	DCR change within $\pm 20\%$, no excessive corrosion

CMHF2822H High Power Surface Mount Fuse Series (High Inrush, 2822 Size)

Average Pre-arcing Time Curves



CMHF2822H High Power Surface Mount Fuse Series (High Inrush, 2822 Size)

Average I^2t vs. t Curves

