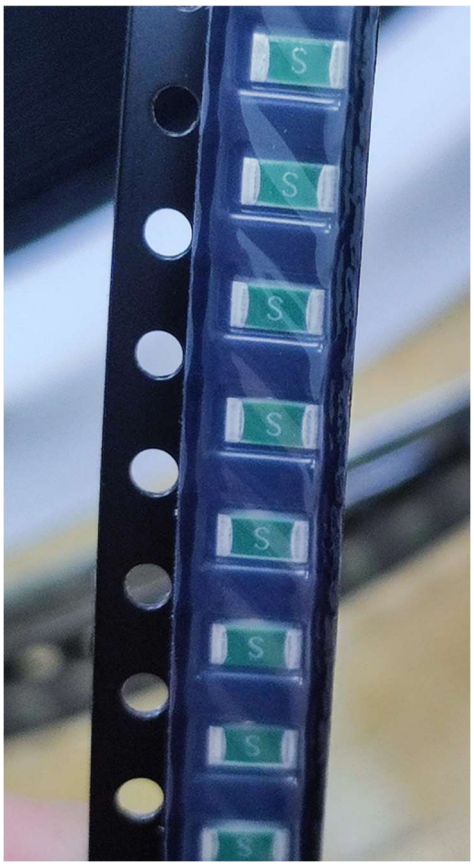


設計驗證
工程課
2024-07-26
發行
鈺鐘科技開發股份有限公司

奧帝瑪科技股份有限公司

承　　認　　書

SPECIFICATION FOR APPROVAL

茲提供本公司所銷售產品之有關詳細規格，敬請惠予測試。若通過承認，請簽回一份報本公司備查。謝謝合作。
此致：

客戶名稱：鈺緯科技開發股份有限公司

產品名稱：**CHIP FUSE**

產品編號：**CC12H4A-TR**

品　　牌：**EATON (COOPER BUSSMANN)**

客戶料號：**3ZFS400632Y** (Z0431)

機種號碼：

本承認書內容若貴公司確認無誤,懇請於下方承認欄內簽章寄回		
承認簽章		
		設計驗證 工程課 2024 -07- 26 發行 鈺緯科技開發股份有限公司

備註:

CC12H
High I²t Chip fuses



Product features

- High I²t
- High inrush withstand capability
- AEC-Q200 qualified: (750 mA to 30 A)
- Excellent temperature and cycling characteristics
- 1206 (3216 metric) compact design utilizes less board space
- Compatible with solder reflow and wave solder

Environmental compliance

Pb HALOGEN HF FREE RoHS c UL us

Applications

Secondary circuit protection

- Laptop, notebook, netbook
- Tablets, e-readers
- Flat panel displays
- High definition television (HDTV)
- LCD/LED backlighting
- Computers and peripherals
- Gaming console systems
- Handheld/portable equipment
- Mobile device chargers

Automotive

- Central body control module
- Heating ventilation and air conditioning controllers (HVAC)
- Doors, window lift and seat control
- Digital instrument cluster
- In-vehicle infotainment (IVI) and navigation
- Electric pumps, motor control and auxiliaries
- Powertrain control module (PCU)/Engine Control unit (ECU)
- Transmission Control Unit (TCU)

Agency information

- cURus Recognition: File E19180, Guide JDYX2/JDYX8
- AEC-Q200 qualified (750 mA to 30 A)

Ordering

- Use ordering number (see page 6 for details)

Packaging suffixes

- -TR (3000 parts per 7" diameter reel, tape width 8 mm)

Electrical characteristics

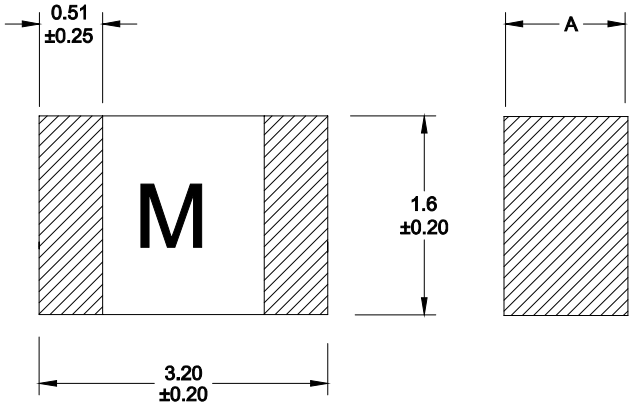
Amp rating	Amp rating condition	Opening time
250 mA – 30 A	100%	4 hours minimum
1 A – 3 A	200%	1.0 s – 60 s
1 A – 5 A	250%	5 s max
1 A - 5 A	300%	0.1 - 3.0 s
250 mA – 750 mA	350%	5 s max
6 A - 30 A	350%	5 s max

Product specifications

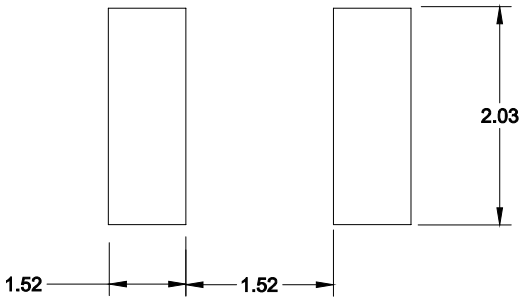
Part number	Current rating (A)	Voltage rating (V_{dc})	Interrupting rating[1] (A)	Typical DC cold resistance[2] (mΩ)	Typical pre-arcing[3] I^2t (A^2s)	Typical voltage drop (mV)	Part marking
CC12H250mA	0.25	63	50	3500	0.00038	1400	.25
CC12H375mA	0.375	63	50	1750	0.00077	730	A
CC12H500mA	0.5	63	50	980	0.0019	700	.5
CC12H750mA	0.75	63	50	800	0.15	700	E
CC12H1A	1	63	50	470	0.18	490	H
CC12H1.5A	1.5	63	50	218	0.4	355	K
CC12H2A	2	63	50	133	1.1	305	N
CC12H2.5A	2.5	63	50	79	1.7	240	O
CC12H3A	3	63	50	49	2.2	185	P
CC12H3.5A	3.5	63	50	37	2.7	180	R
CC12H4A	4	63	50	33	3.2	169	S
CC12H4.5A	4.5	32	100	28	4.2	160	X
CC12H5A	5	32	100	23	6	140	T
CC12H6A	6	32	100	15.5	12	150	F
CC12H7A	7	32	100	11.5	18	130	J
CC12H8A	8	32	100	7.3	18	110	V
CC12H10A	10	32	100	6.5	30	90	U
CC12H12A	12	32	100	4.7	45	90	W
CC12H15A	15	32	100	3	33	90	Y
CC12H20A	20	32	100	2	80	90	Q
CC12H25A	25	32/48	200/150	3	60	90	L
CC12H30A	30	32/48	200/150	2.1	100	90	Z

1. DC interrupting rating measured at rated voltage, time constant of less than 50 microseconds, battery source.
2. Typical DC cold resistance measured at <10% of rated current.
3. Typical pre-arcing I^2t value is measured at 10In rated current.

Dimensions–mm



Recommended Pad Layout

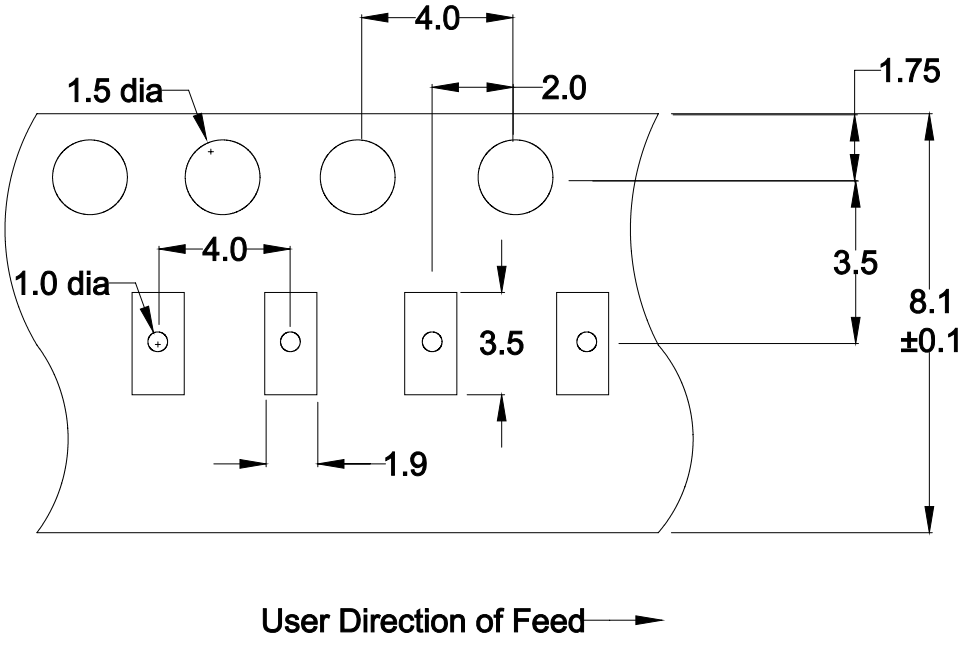


Dimension A	
250 mA to 500 mA	750 mA to 30 A
0.89 +0.20/-0.15	0.65 +0.20/-0.15



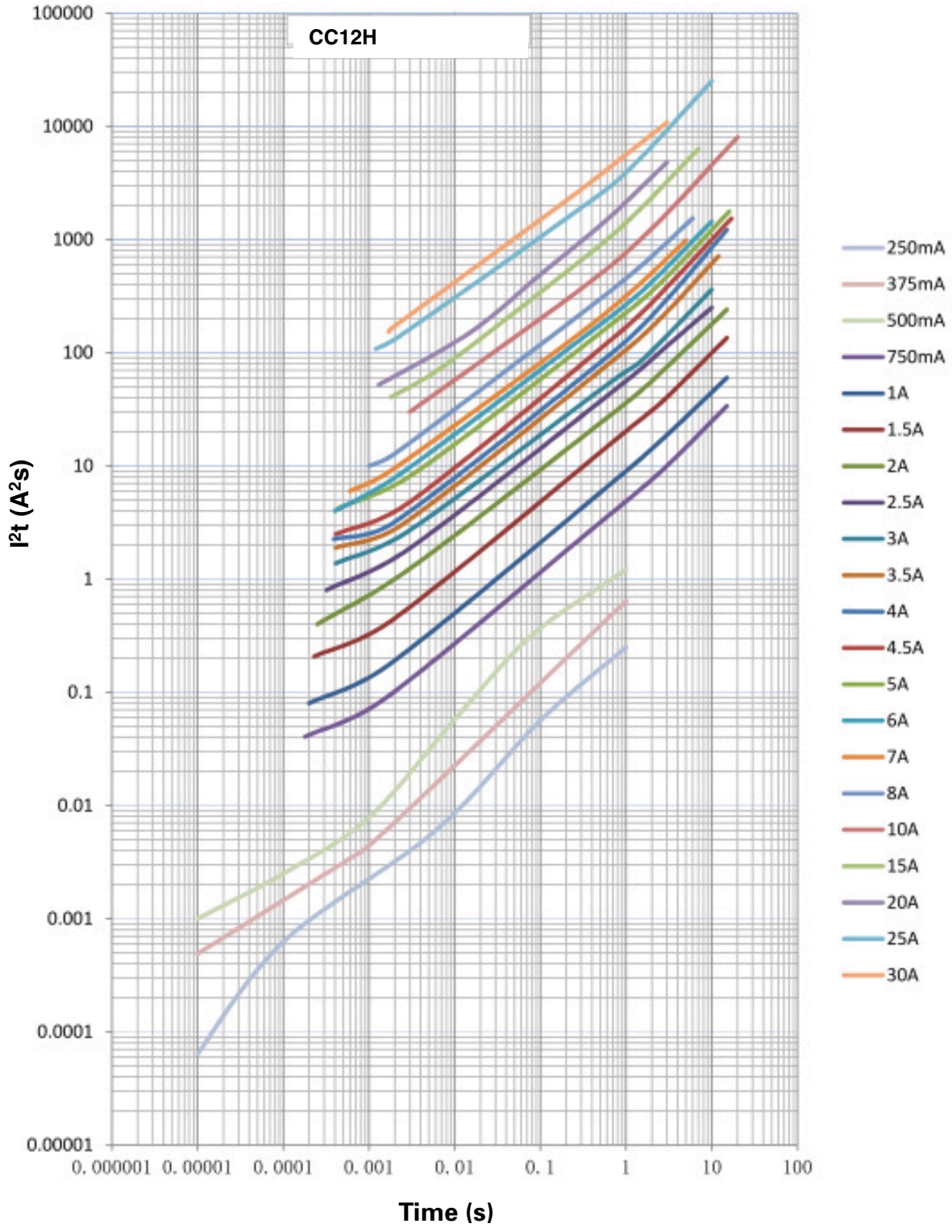
Packaging information- mm

Supplied in tape and reel packaging, 3000 parts per 7" diameter reel. (EIA-481 compliant)

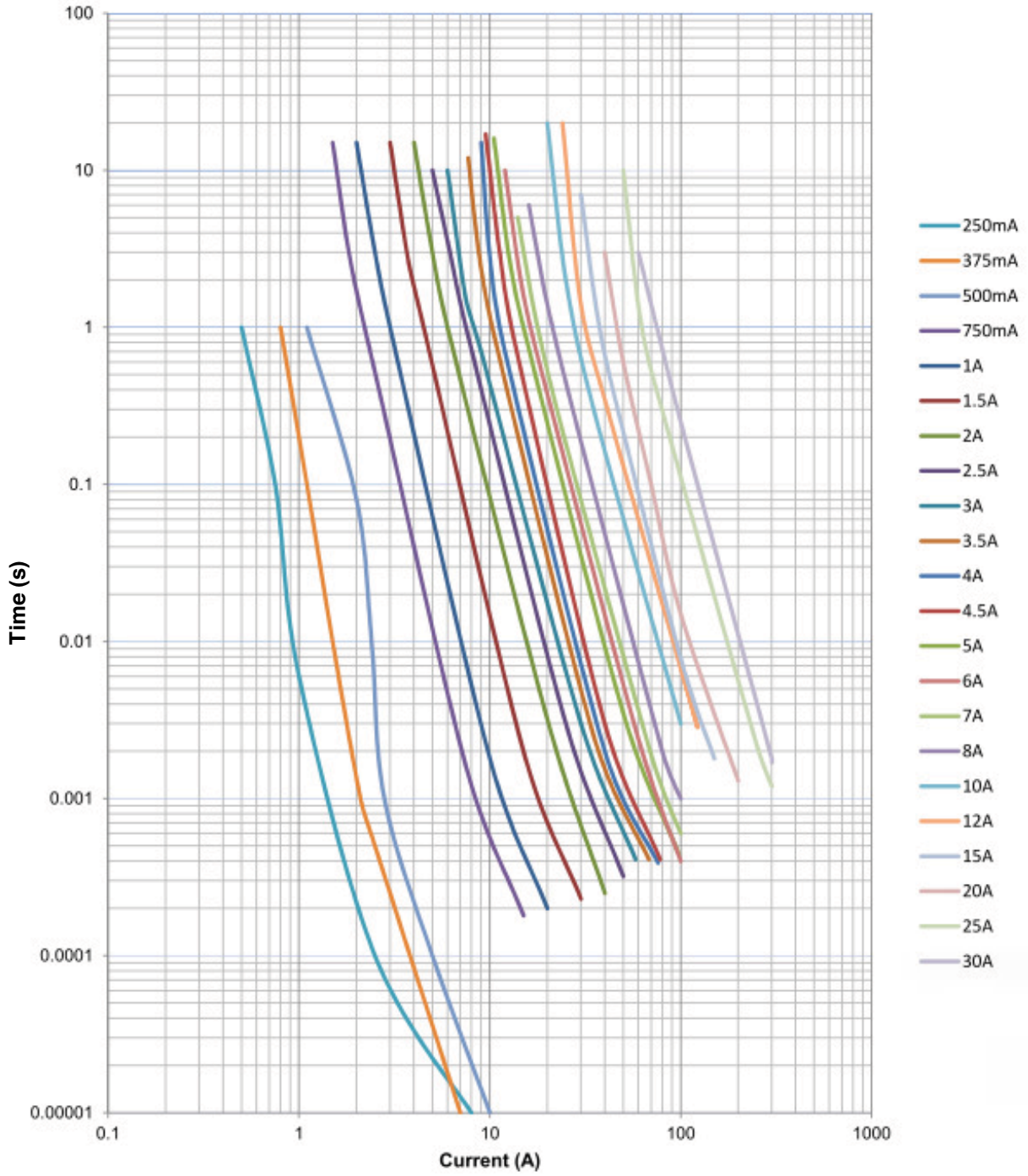


User Direction of Feed →

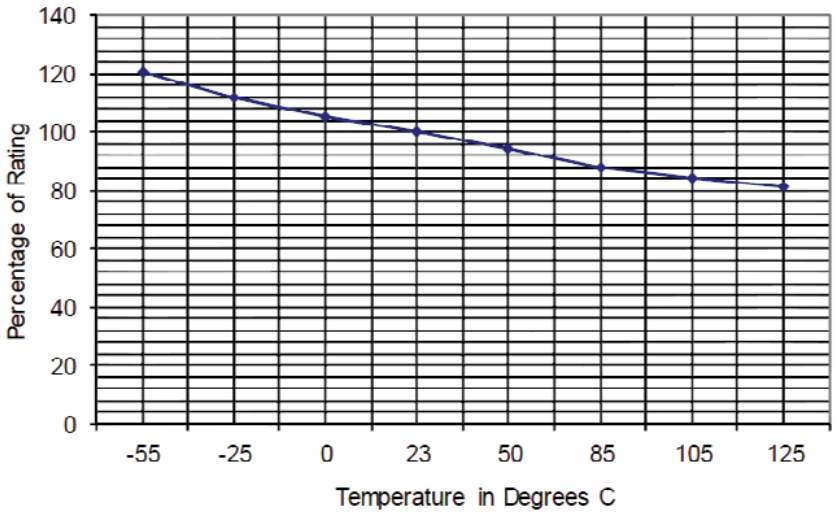
I²t vs. time curve



Time vs. current curve



Temperature derating curve



General specifications

Operating temperature: -55 °C to +125 °C (with derating)
Thermal shock: MIL- STD- 202G, Method 107, (300 cycles -55 °C to +125 °C)
Vibration: MIL-STD- 202G, Method 204, (20 g's for 20 minutes, 12 cycles in each of 3 orientations, 10- 2000 Hz)
Humidity: MIL- STD- 202G, Method 103, (+85 °C, 85% relative humidty, 1000 hours 10% of operating power
Mechanical shock: MIL-STD- 202G, Method 213, Condition C

Ordering codes

The ordering code is the part number replacing the "." with a "-" plus adding the packaging suffix.

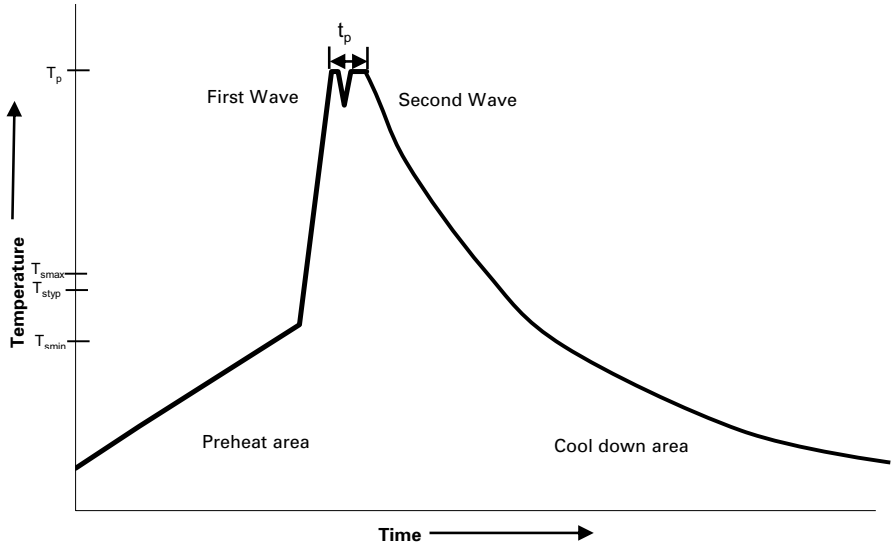
Packaging suffix

• -TR (3000 parts on a 7" reel, tape width 8 mm).

	Ordering code
Part number	**-TR option**
CC12H250mA	CC12H250mA-TR
CC12H375mA	CC12H375mA-TR
CC12H500mA	CC12H500mA-TR
CC12H750mA	CC12H750mA-TR
CC12H1A	CC12H1A-TR
CC12H1.5A	CC12H1-5A-TR
CC12H2A	CC12H2A-TR
CC12H2.5A	CC12H2-5A-TR
CC12H3A	CC12H3A-TR
CC12H3.5A	CC12H3-5A-TR

	Ordering code
Part number	**-TR option**
CC12H4A	CC12H4A-TR
CC12H4.5A	CC12H4-5A-TR
CC12H5A	CC12H5A-TR
CC12H6A	CC12H6A-TR
CC12H7A	CC12H7A-TR
CC12H8A	CC12H8A-TR
CC12H10A	CC12H10A-TR
CC12H12A	CC12H12A-TR
CC12H15A	CC12H15A-TR
CC12H20A	CC12H20A-TR
CC12H25A	CC12H25A-TR
CC12H30A	CC12H30A-TR

Wave solder profile



Reference EN 61760-1:2006

Profile feature		Standard SnPb solder	Lead (Pb) free solder
Preheat	• Temperature min. (T_{smin})	100 °C	100 °C
	• Temperature typ. (T_{styp})	120 °C	120 °C
	• Temperature max. (T_{smax})	130 °C	130 °C
	• Time (T_{smin} to T_{smax}) (t_S)	70 seconds	70 seconds
Δ preheat to max Temperature		150 °C max.	150 °C max.
Peak temperature (T_P)*		235 °C – 260 °C	250 °C – 260 °C
Time at peak temperature (t_p)		10 seconds max 5 seconds max each wave	10 seconds max 5 seconds max each wave
Ramp-down rate		~ 2 K/s min ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~5 K/s max
Time 25 °C to 25 °C		4 minutes	4 minutes

Manual solder

+350 °C (4-5 seconds by soldering iron), generally manual/hand soldering is not recommended.

Solder reflow profile

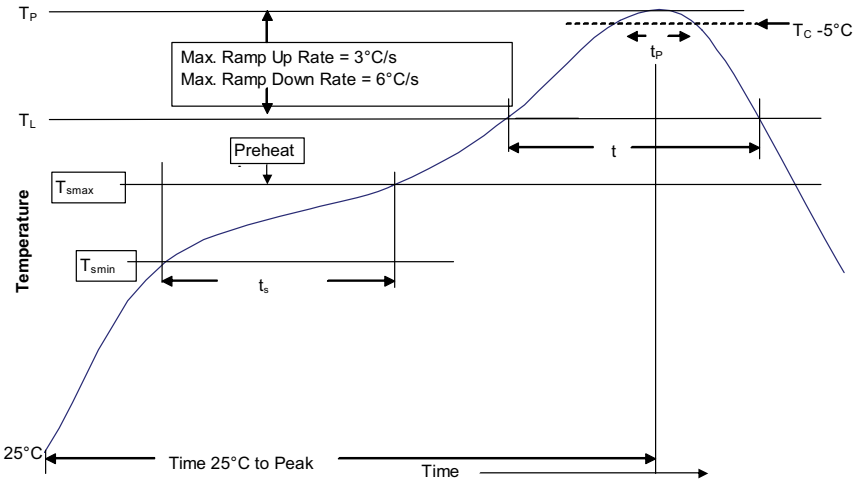


Table 1 - Standard SnPb solder (T_C)

Package thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5 mm	235 °C	220 °C
≥2.5 mm	220 °C	220 °C

Table 2 - Lead (Pb) free solder (T_C)

Package thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
<1.6 mm	260 °C	260 °C	260 °C
1.6 – 2.5 mm	260 °C	250 °C	245 °C
>2.5 mm	250 °C	245 °C	245 °C

Reference J-STD-020

Profile feature		Standard SnPb solder	Lead (Pb) free solder
Preheat and soak	• Temperature min. (T_{smin})	100 °C	150 °C
	• Temperature max. (T_{smax})	150 °C	200 °C
	• Time (T_{smin} to T_{smax}) (t_s)	60-120 seconds	60-120 seconds
Ramp up rate T_L to T_p		3 °C/ second max.	3 °C/ second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L		183 °C 60-150 seconds	217 °C 60-150 seconds
Peak package body temperature (T_P)*		Table 1	Table 2
Time (t_p)* within 5 °C of the specified classification temperature (T_C)		20 seconds*	30 seconds*
Ramp-down rate (T_p to T_L)		6 °C/ second max.	6 °C/ second max.
Time 25 °C to peak temperature		6 minutes max.	8 minutes max.

* Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

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Electronics Division
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com/electronics

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UL Product iQ®

Fuses, Supplemental - Component

COMPANY

COOPER BUSSMANN LLC

114 OLD STATE RD
ELLISVILLE, MO 63021-5915 United States

E19180

Marking: Company name or tradename "Brush" , "Buss" , "Bussmann" , "Eaton" , "Eaton Bussmann Series" , or trademark , , , and model designation.
Note: For additional marking information, refer to the Guide Information Page.

View model for additional information

Supplemental fuses, Model(s): 1A6267, 74D, 74E, 74F, 74J, AGC, AGC-V, AGD, C517, C517-xxx-R, C519, C519-xxx-R, GKB, GLD, GBA, GMC, GMC-xxx-R, MDL, MDL-R, MDL, MDL-R (8.1A - 15A), MDL+, MDL-R+, MDQ, MKC, OW2237, S520, S520-xxx-R, TDC517, TDC517-R

Supplemental fuses, Model(s): ABC-V All Cat. Nos. may be followed by –R

Supplemental fuses, Model(s): AGA-V All Cat. Nos. may be followed by –R

Supplemental fuses, Model(s): AGC-V All Cat. Nos. may be followed by –R

Supplemental fuses, Model(s): AGX-V All Cat. Nos. may be followed by –R

Supplemental fuses, Model(s): MDA-V All Cat. Nos. may be followed by –R

Supplemental fuses, Model(s): MDL-V All Cat. Nos. may be followed by –R

Supplemental fuses, Model(s): MDQ-V All Cat. Nos. may be followed by –R

Supplemental fuses, Model(s): WP-91768 L followed by 17-19 All Cat. Nos. may be followed by –R

Supplemental fuses: cartridge enclosed, Model(s): AGA, AGC-30, AGC-R-30, AGX, C519, C519-xxx-R, GDB, GDB-xxx-R, GDC, GDC, GDC-R, GDC-xxx-R, GDC-xxx-R, GMA, GMA-xxx-R, GMD, GMD-xxx-R, S500, S500-xxx-R, S506, S506, S506-R, S506-xxx-R, TDS 500, TDS 506

Supplemental fuses: filled-tube, Model(s): ABC, ABC-R, C310FC-xxx-R, DMM, DMM-B, DMM-R, DMM-11A, DMM-B-11A, DMM-11A-R, MDA-V-xxx-R, MDA-xxxA, MDA-xxxA-R, MDA-xxx-R, TCP70-S, TDC600, TDC600-R

Supplemental fuses: filled-tube, cartridge enclosed, Model(s): ABC-R, ADC-12-R, ADC-15-R, ADC-20-R, ADC-25-R, ADC-30-R, AHC, AHC, AHC-30-R, AHC5-30-R, AHC5A-30-R, AHCA, AHCA, AHCA-30-R, AHCA-V, AHCA-V, AHCA-V2, AHCA-V2-XXX-R XXX IS REPLACED BY AMPERE, AHCA-V-XXX-R XXX IS REPLACED BY AMPERE, AHCA-xxx-R, AHCA-XXX-R XXX IS REPLACED BY AMPERE, AHC-V, AHC-V, AHC-V2, AHC-V2, AHC-V2-XXX-R XXX IS REPLACED BY AMPERE, AHC-V-XXX-R XXX IS REPLACED BY AMPERE, AHC-xxx-R, AHC-XXX-R XXX IS REPLACED BY AMPERE, FWH5-xxxA6F may be followed by -R., FWH-xxxA6F may be followed by -R., GBH-xxxA6F may be followed by -R., GDA, GDA-xxx-R, MDH-xxx-R, S501, S501-xxx-R, S505H-12-R, S505H-15-R, S505H-16-R, S505H-20-R, TCP70-R, TDS 501

Supplemental fuses: filled-tube, surface mount, Model(s): EV10-xx-T xx may be 30, 40 or 50

Supplemental fuses: filled-tube, surface mount, cartridge enclosed, Model(s): 1145HV1-25-R, 1145HV1-6-R, 1145HV1-R, 1145HV2-5-R, 1145HV2-R, 1145HV3-15-R, 1145HV4-R, 1145HV5-R, 1145HVA1-25-R, 1145HVA1-6-R, 1145HVA1-R, 1145HVA2-5-R, 1145HVA2-R, 1145HVA3-15-R, 1145HVA4-R, 1145HVA5-R, 1350HV1-25-R, 1350HV1-6-R, 1350HV1-R, 1350HV2-5-R, 1350HV2-R, 1350HV3-15-R, 1350HV4-R, 1350HV5-R, 1350HV6-R, 1350HV7-5-R

Supplemental fuses: filled-tube, surface mount, cartridge enclosed, Model(s): 3250HV followed by ampere, followed by "_", followed by "Rx", where x can be blank or one alphanumeric character denoting customer code. Ampere rating 200(mA)-3.

Supplemental fuses: filled-tube, surface mount, cartridge enclosed, Model(s): 3250HVA Followed by ampere, followed by "_", followed by "Rx", where x can be blank or one alphanumeric character denoting customer code. Ampere rating 200(mA)-3.

Supplemental fuses: paper tube, Model(s): 70A, 70H, 70I, 70J, 70L, 70M, 70N, 70B, 70C, 70D, 70E, 70F, 70G, 70K, 70P, 70R, 70X, 74A, 74B, 74C, 74G,74H, 80B, 80C, 80D, 80G, 80H, 80M, GLD, GBA

Supplemental fuses: pigtail leads, Model(s): AGA-V, AGA-V-R, AGC-V+, AGC-V-R+, AGX-V, AGX-V-R, C310T1.25A, C310T1.6A, C310T1A, C310T2A, C310T315mA, C310T400mA, C310T500mA, C310T630mA, C310T800mA, C515, C515-xxx-R, MDH-V-xxx-R, MDL-V, MDL-V+, MDL-V-R+, MDQ-V, MDQ-V-R, S520-V, S520-V-xxx-R, TDC 515

Supplemental fuses: pigtail leads, cartridge enclosed, Model(s): C515, C515-xxx-R, GDB-V, GDB-V-xxx-R, GDC-V, GDC-V, GDC-V-xxx-R, GDC-V-xxx-R, GMA-V, GMA-V-xxx-R, GMC-V, GMC-V-xxx-R, GMD-V, GMD-V-xxx-R, S500-V, S500-V-xxx-R, S506-V, S506-V-xxx-R, S506-V-xxx-R, TDC515

Supplemental fuses: pigtail leads, filled-tube, Model(s): ABC-V, ABC-V-R, C308F-V-xxx where xxx is 1.25 through 2, C310FH-2.0-R, MDA-V-xxxA, MDA-V-xxxA-R

Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed, Model(s): ADC-V2-12-R, ADC-V2-15-R, ADC-V2-20-R, ADC-V2-25-R, ADC-V2-30-R, AHC5A-V2-30-R, AHC5A-V-30-R, AHC5-V2-30-R, AHC5-V-30-R, AHCA-V2 xxx is replaced by ampere, AHCA-V2-30-R, AHCA-V2-xxx-R xxx is replaced by ampere, AHCA-V-30-R, AHCA-V-xxx xxx is replaced by ampere, AHCA-V-xxx-R xxx is replaced by ampere, AHCF xxx is replaced by ampere, AHCFA xxx is replaced by ampere, AHCFA-V xxx is replaced by ampere, AHCFA-V2 xxx is replaced by ampere, AHCFA-V2-xxx-R xxx is replaced by ampere, AHCFA-V-xxx-R xxx is replaced by ampere, AHCFA-xxx-R xxx is replaced by ampere, AHCF-V xxx is replaced by ampere, AHCF-V2 xxx is replaced by ampere, AHCF-V2-xxx-R xxx is replaced by ampere, AHCF-V-xxx-R xxx is replaced by ampere, AHCF-xxx-R xxx is replaced by ampere, AHC-V2-30-R, AHC-V2-xxx xxx is replaced by ampere, AHC-V2-xxx-R xxx is replaced by ampere, AHC-V-30-R, AHC-V-xxx xxx is replaced by ampere, AHC-V-xxx-R xxx is replaced by ampere, GBH-VxxxA6F may be followed by -R., GBH-VxxxA6F, GDA-V, GDA-V-xxx-R, S501-V, S501-V-xxx-R, S505H-V-12-R, S505H-V-15-R, S505H-V-16-R, S505H-V-20-R

Supplemental fuses: pigtail leads, time delay, filled-tube, Model(s): S505SCH-XXX-R, S505-V, S505-V-xxx-R, S515-V, S515-V-xxx-R, TDS505-V

Supplemental fuses: pigtail leads, time delay, filled-tube, cartridge enclosed, Model(s): S505SC-xxx-R, S505-V, S505-V, S505-V-xxx-R, TDS505-V (Alt.), S505-V-xxx-R, TDS505-V

Supplemental fuses: surface mount, Model(s): 1025HC, 1025HCxx-R, 2410FA10-R, 2410FA12-R, 2410FA15-R, 2410FA1-5-R, 2410FA1-R, 2410FA2-5-R, 2410FA2-R, 2410FA3-R, 2410FA4-R, 2410FA500-R, 2410FA5-R, 2410FA6-3-R, 2410FA7-R, 2410FA800-R, 2410FA8-R, CB61F20A, CB61F25A, CB61F30A, CB61F40A, CP6125L10A, CP6125L12A, CP6125L15A, CP6125L1-5A, CP6125L1A, CP6125L20A, CP6125L25A, CP6125L2-5A, CP6125L2A, CP6125L30A, CP6125L3A, CP6125L40A, CP6125L4A, CP6125L500MA, CP6125L5A, CP6125L6-3A, CP6125L7A, CP6125L800MA, CP6125L8A

Supplemental fuses: time delay, filled-tube, Model(s): S505, S505-xxx-R, S515, S515-xxx-R, SG5013XXXX-R, TDS505

Supplemental fuses: time delay, filled-tube, cartridge enclosed, Model(s): S505, S505, S505-xxx-R, TDS505, SG5013 (Alt.), S505-xxx-R, SG5013, TDS505

Supplemental micro fuses, Model(s): 3216FFxx-R, 3216TD, 3216TD-R, 6125FF-R, 6125T, 6125TD5A-T, C308F100mA, C308F125mA, C308F160mA, C308F200mA, C308F250mA, C308F40mA, C308F50mA, C308F63mA, C308F80mA, CC06HxxA, CC06MxxA, CC06SxxA, CC12HxxxA, CC12MxxA, EFF-(xxx) A, ETF-(xxx) A, F0500T, F1250T, F1251T, GMW, PCB, PCC, PCH, PCD, PCE, PCI, PCG, PCL, PCJ, PCK, PCF, SS-5, TCP1.25A, TCP1.25-R, TCP2A, TCP2-R, TCP500mA, TCP500-R, TEL

Supplemental micro fuses: filled-tube, Model(s): SR-5H, SS-5H

Supplemental micro fuses: pigtail leads, Model(s): C310FC-1.25-R, C310FC-1.6-R, C310FC-1-R, C310FC-2.5-R, C310FC-2-R, C310FC-3.15-R, C310FC-4-R, C310FC-500-R, C310FC-5-R, C310FC-6.3-R, C310FC-630-R, C310FC-800-R, C310T2.5A, C310T3.15A, C310T4A, C310T5A, C310T6.3A, GFA, SR-5

Supplemental micro fuses: pigtail leads, filled-tube, cartridge enclosed, Model(s): C310FH-xxx-R

Supplemental micro fuses: pigtail leads, time delay, filled-tube, Model(s): C310T-SC-xxx-R May be followed by suffix characters

Supplemental micro fuses: pigtail leads, time delay, filled-tube, Model(s): C310T-SC-xxx-R-TRK May be followed by suffix characters

Supplemental micro fuses: surface mount, Model(s): 0603FA, 0603FA-T, 0603FAxxx-R, 1025FA, 1025TD, 1025TDxxx-R, 1025xxx-R, 1206FA, 1206FA-T, 2410TD1-5-R, 2410TD1-R, 2410TD2-5-R, 2410TD2-R, 2410TD3-5-R, 2410TD3-R, 2410TD4-R, 2410TD500-R, 2410TD5-R, 2410TD750-R, 2410TD7-R, 3216171J0369 -R, 3216FF, 3216FF, 3216FF-T, 3216FF-T, 3216FFxxx-R, 3216FFxxx-R, 3216LV, 3216LVxxx-R, 6125TD, 6125TDxxx-R, CC06FAxxx (xxx place holder for ampere), CC12PDxxx, SCF4030-12-01, SCF4030-12-02, SCF4030-12-03, SCF4030-12-04, SCF4030-12-05, SCF4030-12-06, SCF4030-12-07, SCF4030-12-08, SCF4030-12-09, SCF4030-12-10, SCF4030-12-67, SCF4030-15-01, SCF4030-15-02, SCF4030-15-03, SCF4030-15-04, SCF4030-15-05, SCF4030-15-06, SCF4030-15-07, SCF4030-15-08, SCF4030-15-10, SCF4030-22-01, SCF4030-22-02, SCF4030-22-03, SCF4030-22-04, SCF4030-22-05, SCF4030-22-06, SCF4030-22-07, SCF4030-22-10, SCF5432-12-01, SCF5432-12-01, SCF5432-12-02, SCF5432-12-02, SCF5432-12-03, SCF5432-12-03, SCF5432-12-04, SCF5432-12-04, SCF5432-12-05, SCF5432-12-05, SCF5432-12-06, SCF5432-12-06, SCF5432-12-07, SCF5432-12-08, SCF5432-12-09, SCF5432-12-10, SCF5432-12-11, SCF5432-12-12, SCF5432-12-13, SCF5432-12-13, SCF5432-12-14, SCF5432-12-14, SCF5432-12-15, SCF5432-12-16, SCF5432-12-17, SCF5432-12-18, SCF5432-12-19, SCF5432-12-20, SCF5432-12-21, SCF5432-12-22, SCF5432-12-23, SCF5432-12-24, SCF5432-12-25, SCF5432-12-26, SCF5432-12-27, SCF5432-12-28, SCF5432-12-29, SCF5432-12-30, SCF5432-12-31, SCF5432-12-32, SCF5432-12-33, SCF5432-15-03, SCF5432-15-04, SCF5432-15-05, SCF5432-15-06, SCF5432-15-07, SCF5432-30-01, SCF5432-30-02, SCF5432-30-03, SCF5432-30-04, SCF5432-30-05, SCF5432-30-06, SCF5432-30-07, SCF5432-30-08, SCF5432-30-10, SCF5432-30-13, SCF5432-30-14, SCF9550-30-01, SCF9550-30-02, SCF9550-30-03, SCF9550-30-05, SCF9550-30-07, SCF9550-30-08, SCF9550-30-08L, SCF9550-30-10, SCF9550-30-10L, SCF9550-30-12, SCF9550-30-13, SCF9550-30-14, SCF9550-30-14L, SCF9550-30-16L, SCF9550-30-17, SCF9550-30-17L, SCF9550-30-20L, SCF9550-45-03, SCF9550-45-04, SCF9550-45-05, SCF9550-45-06, SCF9550-45-07, SCF9550-45-08, SCF9550-45-10, SCF9550-45-14, SCF9550-45-14L, SCF9550-45-15L, SCF9550-45-16, SCF9550-45-16L, SCF9550-45-17, SCF9550-45-17L, SCF9550-45-19, SCF9550-45-20, SCF9550-45-20L, SCF9550-45-24L

Supplemental micro fuses: surface mount, Model(s): 0603HVxxx-R (xxx place holder for ampere)

- Catalog number may be followed by -R
#
(a) - Where xxx is 1.25 through 2.
(a)
(aa) - - Where xx is the current rating
(aa)
* - Followed by suffixes.
*
* - May be followed by suffix characters
+ - May be provided with the suffix B after the catalog number and before the amp rating.
+
Note - Suffix R signifies a lead free plating
Note

Last Updated on 2024-05-31

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Optima Comp. Technologies Corp.
奧帝瑪科技股份有限公司
桃園市桃園區經國路888號3F-2
TEL:886-3-2702268 FAX:886-3-2701699
E-mail:neo@optima-tek.com
http://www.optima-tek.com