CB61F

Fast-acting surface mount Brick™ fuses

Product features

- High Interrupting Ratings: 50A @ 125Vac / 300A @ 125Vdc
- Wide Selection: ratings from 2 to 15 amps providing a range of solutions for applications requiring fast-acting performance
- CQC Approved: Meets the growing market demand.
- cULus Certified and PSE Level 1 Certified
- Excellent Environmental Integrity: lead-free, halogen free and RoHS compliant, and present no disposal issues at end of life.
- Solder immersion compatible
- Wire-in-Air design

Agency information

- cULus: Standard UL 248-14, Guide JDYX, File E 19180 and Guide JDYX7, File E19180
- PSE: JET 1641-31007-1003 (2A-5A),JET 1641-31007-1004 (6.3A-10A), JET 1641-31007-1005 (12-15A)
- CQC: CQC09012040316 (2A-6.3A & 8A-10A)

Ordering

- Specify product and packaging code

Applications

Primary circuit protection:

- LCD/PDP TVs
- Notebooks
- Telecom/PoE
- Industrial applications
- LCD Monitors
- Servers
- Medical equipment
- LCD backlight inverters
- Power supplies
- White goods

Environmental data

- Mechanical Shock: MIL-STD-202G, Method 213B, Test Condition C (100 G's peak for 6 milliseconds; half-sine waveform)
- Mechanical Vibration: MIL-STD-202G, Method 201,Test Condition A (10-55Hz, 0.06 inch, total excursion)
- Insulation Resistance: MIL-STD-202, Method 302, Test Condition A (after opening) 10,000 ohms minimum
- Resistance to Solder Heat: MIL-STD-202G, Method 210F, Test Condition D (10 sec, at 260°C); Test Condition A (350°C, 5s) for hand solder
- Thermal Shock: MIL-STD-202, Method 107G, Test Condition B (-65°C to +125°C)

Specifications

Catalog Number	Current Ratings (amps)	Voltage Ratings		Interrupting Ratings (amps)*		Typical Cold Resistance (Ω)**	Typical Melting I^2t (A^2s)***	Typical Voltage Drop (mV)‡	Agency Approvals		
		Vac	Vdc	125Vac	125Vdc				cULus	PSE	CQC
CB61F2A	2	125	125	100	300	0.039	0.85	100	X	X	X
CB61F3A	3	125	125	100	300	0.025	2.08	100	X	X	X
CB61F4A	4	125	125	100	300	0.017	4.4	93	X	X	X
CB61F5A	5	125	125	100	300	0.013	7.7	90	X	X	X
CB61F6.3A	6.3	125	125	100	300	0.010	13.7	90	X	X	X
CB61F7A	7	125	125	100	300	0.009	15.6	85	X	X	
CB61F8A	8	125	125	100	300	0.008	19.5	90	X	X	X
CB61F10A	10	125	125	100	300	0.006	36	90	X	X	X
CB61F12A	12	125	125	50	300	0.005	40	90	X	X	
CB61F15A	15	125	125	50	300	0.004	56	85	X	X	

* AC Interrupting Rating (measured at designated voltage, 100% power factor); DC Interrupting Rating (measured at designated voltage, time constant of less than 50 microseconds, battery source)
** Typical Cold Resistance (measured at 10% of rated current)
*** Typical Melting I2t (measured with a battery bank at rated DC voltage, 10x-rated current, time constant of calibrated circuit less than 50 microseconds)
‡ Typical Voltage Drop (measured at rated current after temperature stabilizes)

Dimensions - mm

Drawing Not to Scale

Recommended Pad Layout

Time-Current Curves

Soldering Characteristics

Wave Immersion

- Reservoir Temperature: 260° C
- Time in Reservoir : 10 Seconds Maximum

Infrared Reflow

- Temperature: 260° C
- Time: 30 Seconds Maximum

Hand Soldering

- Maximum tip temperature: 350°C
- Maximum soldering time: 5 seconds max

Recommend Reflow Profile

Packaging Code	
Packaging Code Suffix	Description
-TR1	1000 Fuses in Tape and Reel on 7 inch (178mm) diameter reel
-TR2	5000 Fuses in Tape and Reel on 13 inch (330mm) diameter reel

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

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.

Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.