

Product aid
Eaton 1210HC high current brick fuses



Eaton provides 1210HC high current brick fuses for overcurrent protection



Eaton's 1210HC high current brick fuses are designed to provide reliable overcurrent protection in high power density applications.

Product description

Eaton Bussmann's 1210HC high current brick fuses are designed to provide reliable overcurrent protection in high power density applications. These fuses offer an ultrahigh current carrying capability ranging from 50 A to 200 A in a 12.4 mm x 10 mm x 6.8 mm package, allowing the product to serve as a single-fuse solution and avoiding the need for physically larger fuses or the paralleling of multiple smaller rated fuses. Eaton Bussmann's 1210HC fuses offer high breaking capacity (up to 10kA), making them suitable for the demanding requirements of AI servers, data centers, and the latest computing applications.

Features and benefits

- Wide current rating range (50 A to 200 A) satisfies high current requirements in AI server applications and other high power density systems
- Compact size is suitable for space-constrained designs and high density PCBs
- Ultrahigh breaking capacity meets interrupting current requirements of AI server power distribution boards and other high power applications
- UL and TUV certification meets global customer requirements and safety standards
- RoHS-compliant and lead-free: meets the latest environmental standards and supports the development of greener, more sustainable computing and power systems
- Fast-acting protection: interrupts the flow of current in an overcurrent condition, preventing damage to sensitive components and reducing the risk of fire or other hazards
- Robust design and construction ensures long-term reliability in demanding environments
- Technical support for product selection and application-specific needs



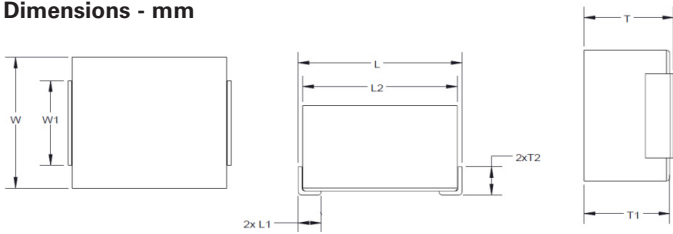
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Product specifications

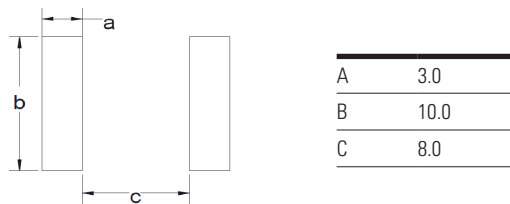
Part number	Current rating (A)	Voltage rating (V)	Breaking capacity @ rated voltage (A)	Typical cold resistance ¹ (mΩ)	Resistance tolerance	Typical voltage drop ² (mV)	Typical melting ³ I ² t (A ² Sec)
1210HC50-RTR	50	125 Vdc 100 Vdc	6 kA @ 100 Vdc (TUV certified) 3 kA @ 125 Vdc (UL certified) 10 kA @ 80 Vdc (self-certificated)	1.02	± 35%	79	925
1210HC60-RTR	60	125 Vdc 100 Vdc		0.81	± 35%	73	1575
1210HC70-RTR	70	125 Vdc 100 Vdc		0.65	± 35%	70	1750
1210HC80-RTR	80	125 Vdc 100 Vdc		0.58	± 35%	70	3920
1210HC100-RTR	100	125 Vdc 100 Vdc		0.47	± 35%	79	6410
1210HC125-RTR	125	125 Vdc 100 Vdc		0.35	± 35%	70	16450
1210HC150-RTR	150	100 Vdc 75 Vdc	3 kA @ 100 Vdc 10 kA @ 75 Vdc (TUV & UL certified)	0.30	± 50%	73	19000
1210HC175-RTR	175	100 Vdc 75 Vdc		0.27	± 50%	74	25700
1210HC200-RTR	200	100 Vdc 75 Vdc		0.24	± 50%	78	40000

1. Cold resistance is measured at <10% rated current
2. Typical voltage drop is measured at rated current
3. Typical melting I²t is measured at 10 In

Dimensions - mm



Recommended pad layout - mm



- *Above land pattern is recommended for reflow soldering;
 Recommend 5 mm² minimum trace for 70 A and below.
 Recommend 7 mm² minimum trace for 80 A to 125 A.
 Recommend 17 mm² minimum trace for 150 A and above.

Amp rating	L	W	T	L1	L2	W1	T1	T2
50 A - 200 A	12.4 +1/-0.5	10.0 ±0.5	6.8 ±0.5	1.6 ±0.5	11.8 ±0.3	6.3 ±0.3	6.5 ±0.3	2.3 ±0.5

See data sheets for complete product details.

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