0603HV

Fast-acting chip fuses

Product features

- 0603 (1608 metric) compact design utilizes less board space
- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- Rugged ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- High breaking capacity up to 63 V
- Mositure sensitivity level (MSL): 1

Applications

Secondary circuit protection

- I/O Switch modules
- Printers
- Laptop, notebook, netbook
- Tablets, e-readers
- Flat panel displays
- High definition television (HDTV)
- Gaming console systems
- Handheld/portable equipment
- Mobile device chargers

Agency information

- UL Recognized File: File E19180

Ordering

- Use ordering codes (see page 3 for details)

Packaging prefixes

- TR- (5,000 parts in paper tape on a 178 mm (7”) reel)

Electrical characteristics

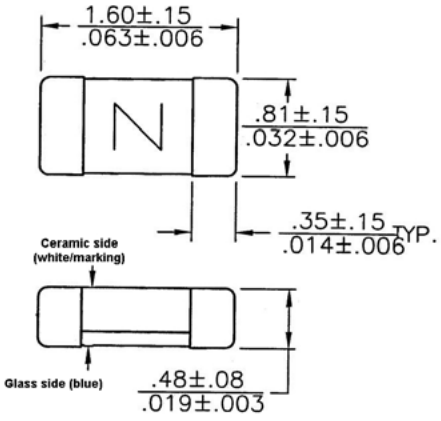
Amp Rating	% of Amp Rating	Opening Time
500 mA – 1.5 A	100%	4 hours minimum
500 mA – 1.5 A	200%	60 seconds maximum

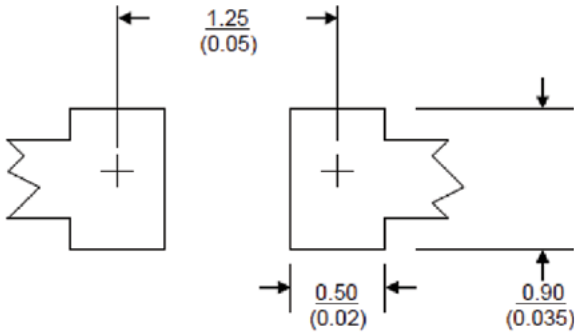
Product specifications

Part Number[5]	Current rating (A)	Voltage rating (Vdc)	Interrupting rating[1] (A)	Typical DC cold resistance[2] (Ω)	Typical pre-arcing[3] I^2t (A^2s)	Typical voltage drop (V)	Part marking
0603HV500-R	0.5	63	50	1.025	0.0019	0.60	F
0603HV750-R	0.75	63	50	0.51	0.003	0.50	G
0603HV1-R	1	63	50	0.15	0.007	0.211	H
0603HV1.25-R	1.25	63	50	0.132	0.008	0.201	J
0603HV1.5-R	1.5	63	50	0.086	0.0319	0.138	K

1. DC interrupting rating measured at rated voltage, time constant less than 50 microseconds, battery source
2. DC cold resistance measured at <10% of rated current
3. Typical pre-arcing I^2t measured with a battery bank at rated dc voltage, 10x-rated current, not to exceed IR, time constant of calibrated circuit less than 50 microsecond
4. Typical voltage drop measured at rated current after temperature stabilizes
5. Part Number Definition: 0603HVxxx-R
   - 0603HV = Product code and size
   - xxx - Ampere rating
   - -R suffix = RoHS complaint

Dimensions–mm



Fuse to be installed with ceramic side up (white/marking)

Recommended pad layout