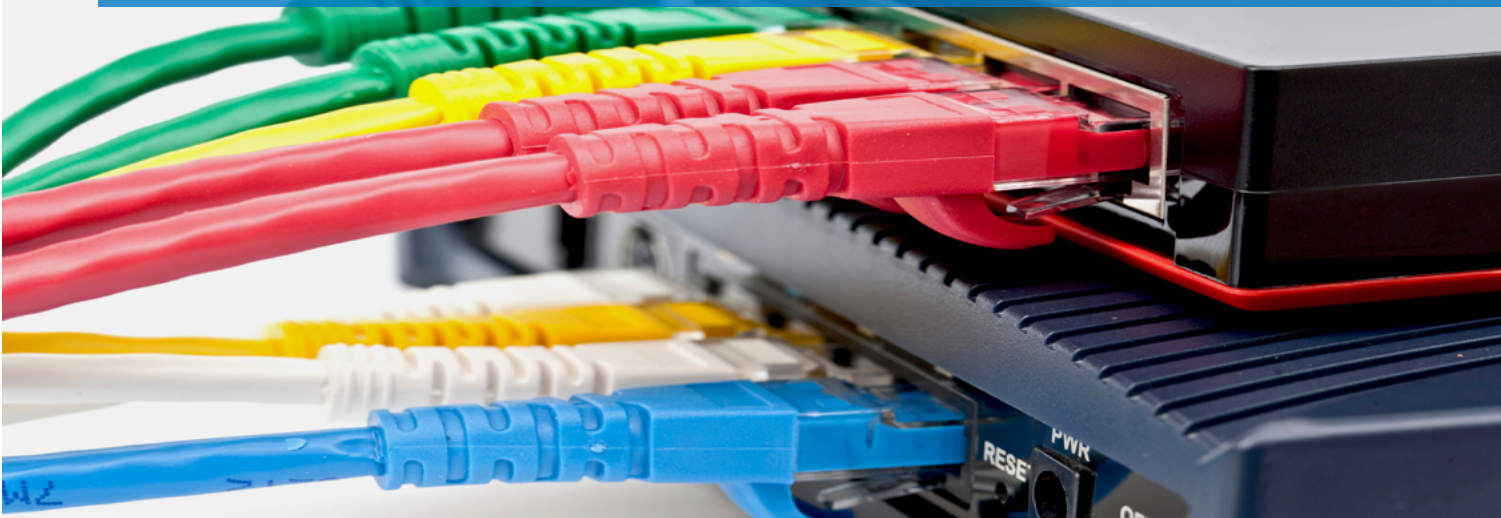


## 0603HV Fast-acting chip fuse



# Surface mount fast-acting fuse for overcurrent protection in RJ45 connector applications



The 0603HV provides overcurrent protection for high-voltage applications.

### Product description

Eaton's Bussmann® series 0603HV fast-acting surface mount fuses are designed for overcurrent protection of electronic circuits in I/O switch modules using RJ45 connectors and other space-constrained applications that require higher voltage ratings. They provide short-circuit and overload protection in circuits up to 63 Vdc.

The 0603HV fast-acting fuses are RoHS-compliant, halogen-free, and lead-free products offered in tape and reel packaging.

### Features and benefits:

- Compact design 0603 (1608 metric) package
- Robust cycling performance
- Reliable operation in temperatures ranging from -55 °C to +125 °C
- Highest voltage rating for the 0603 sizes (63 Vdc)
- Halogen and lead-free, RoHS-compliant, and UL approved
- Solder-free element design; no M-spot

# EATON

Powering Business Worldwide

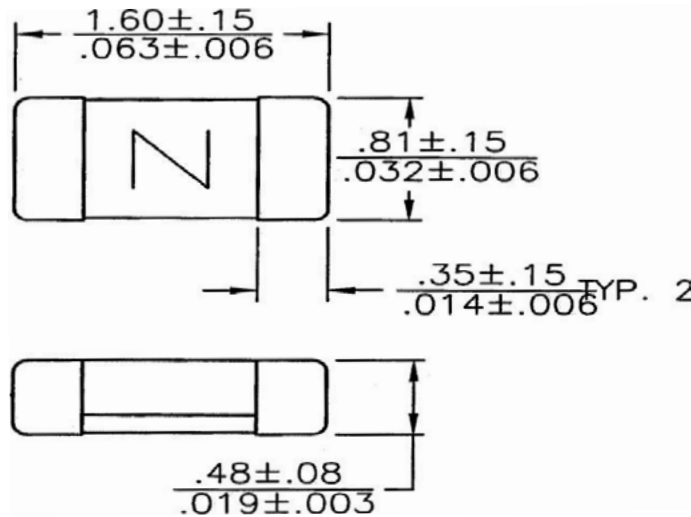
## Electrical characteristics

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 <sup>5</sup>	Current rating (A)	Voltage rating (V <sub>dc</sub> )	Interrupting rating <sup>1</sup> (A)	Typical DC cold resistance <sup>2</sup> (Ω)	Typical pre-arcing <sup>3</sup> I <sup>2</sup> t (A <sup>2</sup> s)	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

- DC interrupting rating measured at rated voltage, time constant less than 50 microseconds, battery source
- DC cold resistance measured at <10% of rated current
- Typical pre-arcing I<sup>2</sup>t 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
- Typical voltage drop measured at rated current after temperature stabilizes
- Part Number Definition: 0603HVxxx-R  
 0603HV = Product code and size  
 xxx - Ampere rating  
 -R suffix = RoHS compliant



**Eaton**  
**Electronics Division**  
 1000 Eaton Boulevard  
 Cleveland, OH 44122  
 United States  
[Eaton.com/electronics](http://Eaton.com/electronics)

© 2019 Eaton  
 All Rights Reserved  
 Printed in USA  
 Publication No. 11006 BU-MC19132  
 November 2019

Eaton is a registered trademark.  
 All other trademarks are property  
 of their respective owners.

Follow us on social media to get the  
 latest product and support information.

