

Surface Mount Fuses

NANO²® Fuse > 463 Series




Description

The 463 series NANO²® fuse is a fast-acting, very high current fuse designed for high operating current applications. It offers superior thermal cycling endurance of 500 cycles with its low temperature rise and excellent temperature stability characteristics, it is ideal to be used in datacom and telecom equipment such as high end server, base station, power supplies, and blade computing applications.

The 463 series offers high-amp circuit protection, ultra-high interrupting ratings (up to 500A@ 72VDC) and small size (10.1 mm x 3.12 mm x 3.12 mm) and surface-mount form-factor to help space saving.

Agency Approvals

Agency	Agency File Number	Ampere Range
	E10480	15A - 30A
	NBK101105-E184655	15A

Features

- Surface mount fuse in a small footprint
- High current rating 15A-30A
- Higher voltage rating up to 100VDC and 250VAC
- High melting i2t
- Enhanced thermal cycling endurance
- Operating temperature range from -55°C to 125°C
- RoHS Compliant and Halogen-Free



Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 Hours, Min.
200%	60 Second, Max.

Applications

- High end servers / Blade computing
- Base station power supply
- Voltage regulator module
- Cooling fan system for PC Server
- Advance Telecommunication Computing Architecture (ATCA) applications for cloud computing
- Battery Management System (Industrial Tools)

Electrical Characteristic Specifications by Item

Ampere Rating (A)	Ampere Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ₂ t (A ² sec)	Agency Approvals	
							
15	015.	250	100A@250VAC 300A@65VAC 500A @ 72VDC 50A@100VDC	0.0047	142	x	x
20	020.	250	1000A @ 32VDC 800A @ 57VDC 1400A @ 48VDC 2500A @ 12VDC	0.0027	433	x	
25	025.	250	100A @ 250VAC 300A @ 65 VAC 500A @ 72VDC 50A@100VDC	0.00215	668	x	
30	030.	250	1000A @ 32VDC 800A @ 57VDC 1400A @ 48VDC 2500A @ 12VDC	0.00193	916	x	

Notes:

1. Cold resistance measured at less than 10% of rated current at 23°C.
2. Agency Approval Table Key: X=Approved or Certified, P=Pending and Blank=Not Approved.
3. I₂t values stated for 10 msec opening time.