

C310FH

3.1 mm x 10 mm Fast-acting, axial lead ceramic tube fuses



Product features

- Fast-acting
- · High breaking capacity
- Designed to IEC60127-3/-7
- Nickel-plated brass single end cap construction
- 3.1 mm x 10 mm compact design utilizes less board space
- Epoxy coated option available

Applications

Primary circuit protection:

- Power supplies
- LED and general lighting
- Consumer electronics
- Desktop, laptop and notebook
- Test equipment

Agency information

- cURus Recognition file number: E19180, Guide JDYX2/JDYX8
- CCC: 2019010207248424
- KC-Mark: File SU05030-14001
- TUV: R50278944

Ordering

· Use ordering number (see page 4 for details)

Packaging suffixes

- -TR1 (1500 parts on tape and reel, tape width 60 mm)
- · -TR2 (1500 parts on tape and reel, tape width 52 mm)
- E-TR1 (Epoxy coated fuse, 1500 parts on tape and reel, tape width 60 mm)

Option code

- · Blank (Standard fuse)
- E (Epoxy coated)

Discontinued effective 6/17/24 or until inventory is depleted



Electrical characteristics

<u>I,</u>	1.5I min hours	2.11 _n max minute	2.75I _n min ms	max s	4l min ms	max ms	10I _n max ms
1.25 A- 2.0 A	1.0	30	10	3.0	3.0	300	20

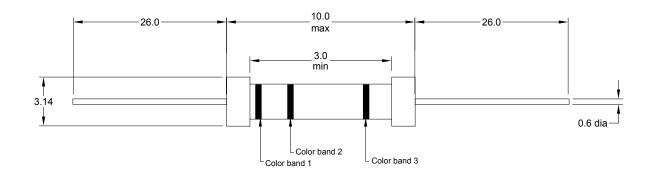
Product specifications

Part number¹	Current rating (A)	Voltage rating (V _{AC})	Interuppting rating at rated volt- age (A)	Typical DC cold resistance (mΩ)	Typical melting I ² t (A ² s)	Maximum voltage drop (mV)	Color code band 1	Color code band 2	Color code band 3
C310FH-1.25-R	1.25	250	150	60	2.7	120	Brown	Red	Red
C310FH-1.6-R	1.6	250	150	55	3.0	120	Brown	Blue	Red
C310FH-2-R	2.0	250	150	30	4.9	120	Red	Black	Red

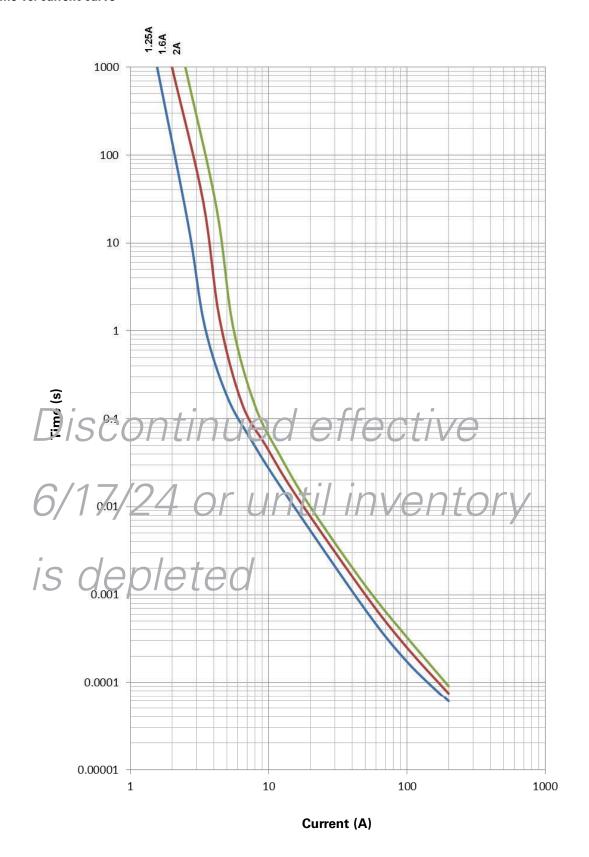
Part Number Definition: C310FH-xxx-R
 C310FH = Product code
 xxx = Ampere rating
 -R suffix = RoHS compliant

Discontinued effective 6/17/24 or until inventory is depleted

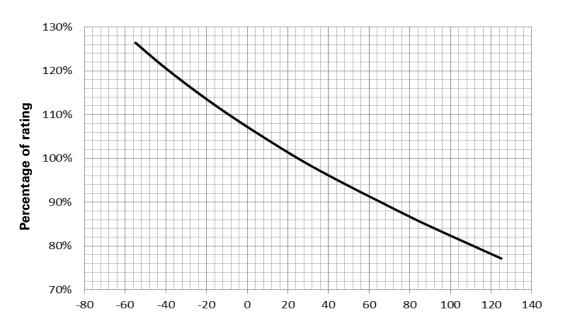
Dimensions-mm



Time vs. current curve



Temperature derating curve



Temperature in degrees C

Discontinued effective **General specifications**

Terminal strength: MIL-STD-202G, Method 211A, test condition A

Euntil inventory Thermal shock: MIL-STD- 202G, Me hod 10/G, test condition (5 cycles 40 °C to - 85 °C)

Vibration: MIL-STD- 202G, Method 201A

Life: MIL-STD- 202G, Method 108, (+70 °C at 60% rated current, 1000 hours)

Ordering codes

The ordering code is the part number replacing the "" with a "-" plus adding the packaging suffix.

Packaging suffixes

- -TR1 (1500 parts on tape and reel, tape width 60 mm)
- -TR2 (1500 parts on tape and reel, tape width 52 mm)
- E-TR1 (Epoxy coated fuse, 1500 parts on tape and reel, tape width 60 mm)

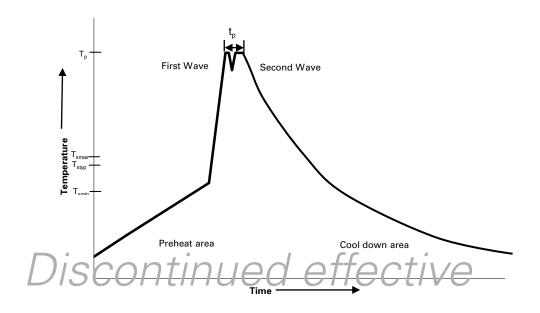
Option code

- · Blank (Standard fuse)
- · E (Epoxy coated)

Ordering codes

Part number	-TR1 option	-TR2 option	E-TR1 option					
C310FH-1.25-R	C310FH-1-25-R-TR1	C310FH-1-25-R-TR2	C310FH-1-25-RE-TR1					
C310FH-1.6-R	C310FH-1-6-R-TR1	C310FH-1-6-R-TR2	C310FH-1-6-RE-TR1					
C310FH-2-R	C310FH-2-R-TR1	C310FH-2-R-TR2	C310FH-2-RE-TR1					

Wave solder profile



7/24 or until inventorv Reference EN 61760-1;20(6

Profile feat	ure	Standard SnPb solder	Lead (Pa) free solder
Preheat	• Temperature min. (T _{Smin})	100 °C	100 °C
	Temperature typ. (Tstyp)	120 °C	120 °C
	Trimperature max (Tismax)	130 °C	130 °C
	• Time (T _{Smin} to T _{Smax}) (t _S)	70 seconds	70 seconds
Δ preheat to max Temperature		150 °C max.	150 °C max.
Peak temperature (Tp)*		235 °C – 260 °C	250 °C – 260 °C
Time at peak temperature (t _p)		10 seconds max 5 seconds max each wave	10 seconds max 5 seconds max each wave
Ramp-down r	ate	~ 2 K/s min ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~5 K/s max
Time 25 °C to	25 °C	4 minutes	4 minutes

Manual solder

+350 °C (4-5 seconds by soldering iron), generally manual/hand soldering is not recommended

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Eaton Electronics Division

1000 Eaton Boulevard Cleveland, OH 44122 United States Eaton.com/electronics

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