

Chip[™] Fuses



Description

- Surface mount circuit protector
- · Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Ampere rating marked and oriented facing up in carrier
- Solder-free design provides excellent temperature
- cycling
- Heat and shock tolerant

| ELECTRICAL CHARACTERISTICS | | |
|----------------------------|-----------------------|--|
| % of Amp Rating | Opening Time | |
| 100% | 4 Hours Minimum | |
| 250% | 10 Seconds Maximum | |
| 600% | 1 millisecond typical | |

Agency Information

- UL Recognition Guide & File numbers: JDYX2 & E19180.
- CSA Certification Record No: 053787 C 000 & Class No: 1422 30.

Environmental Data

- Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65°C to 125°C)
- Vibration: MIL-STD-202, Method 204, Test Condition C (55 to 2000 Hz, 10G)
- Moisture Resistance: MIL-STD-202, Method 106, 10 day cycle
- Solderability: ANSI/J-STD-002, Test B

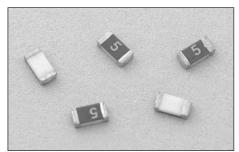
Soldering Method

- Wave Solder: 260°C, 10 sec max.
- Infrared Reflow: 260°C, 30 sec max.

Ordering

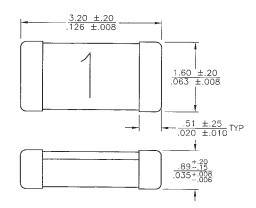
Specify product code and packaging code

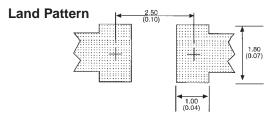
3216CP Series Circuit Protector



Dimensions "m/(inches)

Drawing Not to Scale





| SPECIFICATIONS | | | | | |
|----------------|---------------------------|-----------------------------------|--------------------------------|-------------------------|---------------------------------|
| Product Code | Voltage Rating (DC) | Interrupting Rating* 24V DC | Resistance (ohms)** Typ. | Typical Melt I²t† | Typical Voltage Drop (V)‡ |
| 3216CP-250mA | 24V | 35A | 4.50 | 0.000084 | 1.4 |
| 3216CP-375mA | 24V | 35A | 1.80 | 0.0002 | 0.73 |
| 3216CP-500mA | 24V | 35A | 1.15 | 0.0019 | 0.66 |
| 3216CP-750mA | 24V | 35A | 0.75 | 0.00095 | 0.63 |
| 3216CP-1A | 24V | 35A | 0.168 | 0.007 | 0.2 |
| 3216CP-1.5A | 24V | 35A | 0.098 | 0.029 | 0.18 |
| 3216CP-2A | 24V | 35A | 0.063 | 0.049 | 0.16 |
| 3216CP-2.5A | 24V | 35A | 0.046 | 0.112 | 0.14 |
| 3216CP-3A | 24V | 35A | 0.037 | 0.165 | 0.13 |
| 3216CP-4A | 24V | 35A | 0.019 | 0.189 | 0.11 |
| 3216CP-4.5A | 24V | 35A | 0.014 | 0.328 | 0.1 |
| 3216CP-5A | 24V | 35A | 0.013 | 0.619 | 0.09 |

DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source) DC Cold Resistance (Measured at 10% of rated current) Typical Melting I²t (Measured with a battery bank at rated DC voltage, 10x-rated current, time constant of calibrated circuit less than 50 microseconds)

t

• It is recommended that fuses be mounted with glass (blue) side facing up.

• Device designed to carry rated current for four hours minimum. An operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperatures.

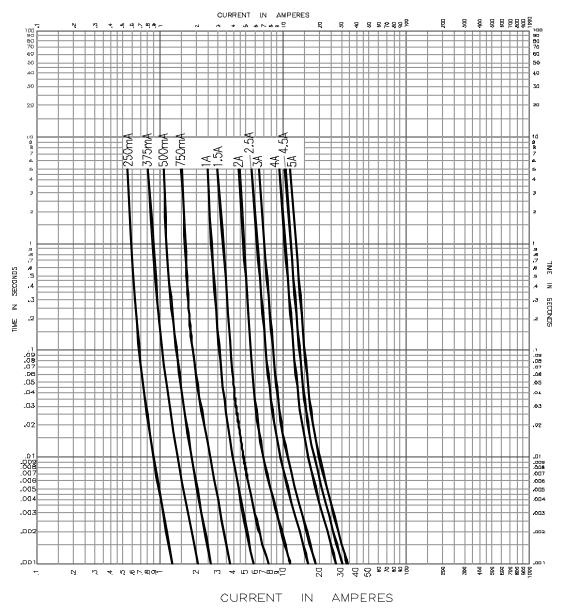
[‡] Typical Voltage Drop (Measured at rated current after temperature stabilizes)





Chip[™] Fuses 3216CP Series Circuit Protector

TIME CURRENT CURVE



| PACKAGING CODE | | |
|----------------|--|--|
| Packaging Code | Description | |
| SP | 50 piece sample pack | |
| TR | 3,000 pieces of fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard RS481 | |
| TR | | |

COOPER Electronic Technologies

OC-2533 Rev. C 8/02 Visit us on the Web at www.cooperET.com

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 TF16SN3.15TTD
 41921000000
 TR/3216LR

 500MA
 CCP2B20TTE
 TR-3216FF4-R
 TR2-TCP500-R
 F60C500V12AS
 FCC16102ABTP
 FHC16322ADTP
 0308.250UR
 0308.375UR

 0308.500UR
 0308.750UR
 0308001.UR
 030801.5UR
 FCC16202ABTP
 3-122-714
 3-122-718
 3-122-712
 3-122-716
 03081.25UR

 CQ06LF 5A 32V
 CQ06LT 5A 32V
 SET 2A 125V (G)
 SET 1A 125V (G)
 SEF 10A 125V (G)
 SEF 3A 125V (G)
 SEF 4A 125V (G)
 SEF 6A

 125V (G)
 SEF 7A 125V (G)
 SET 4A 125V (G)
 SET 3A 125V (G)
 SET 5A 125V (G)
 SET 7A 125V (G)
 F0603G0R03FNTR
 SKY87604-12

 SKY87604-11
 SKY87604-13
 189140.1,25
 189140.0,4
 189140.0,63
 189140.0,25
 12 110.2