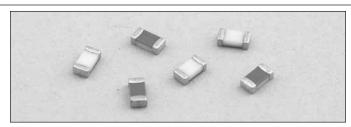


Chip[™] Fuses 3216FF Series, Fast-Acting



Description

- Fast-acting surface mount fuse
- · Ratings up to 20 amps
- Excellent temperature and cycling characteristics
- · Compatible with reflow and wave solder

Agency Information

- UL Recognition Guide JDYX2 & File E19180.
- CSA Component Acceptance: 053787 C 000 & Class No: 1422 30.
- Recognition File: E19180 (15 20A)

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 (55Hz - 2kHz, 10G)
- · Moisture Resistance: MIL-STD-202, Method 106, 10 day cycle
- Solderability: ANSI/J-STD-002, Test B

Ordering

· Specify packaging and product code (i.e., TR/3216FF250-R)

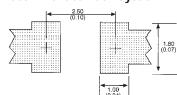
Soldering Method

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

Electrical Characteristics						
Amp Rating	% of Amp Rating	Opening Time				
250mA - 20A	100%	4 Hrs. Min.				
1.25A - 3A	200%	60 Sec. Max.				
250mA - 3A	250%	5 Sec. Max.				
4A - 7A	350%	1 Sec. Max.				
10A - 20A	350%	5 Sec. Max.				

3.20 ±0.20 0.126 ±0.008 Dimension - mm (in) Drawing Not to Scale 0.51 ±0.25 0.020 ±0.010

Recommended Pad Layout - mm (in)



					(0.04)		
Specifications							
Product Code		Ratings			Resistance	Typical	Typical
	Amps	Vac	Vdc	IR Amps AC/DC*	(Ω)** Typ.	Melt I ² t† DC	Voltage Drop (V)‡
3216FF250-R	250mA	32	63	50	3.5000	0.00038	1.4
3216FF375-R	375mA	32	63	50	1.7500	0.00077	0.73
3216FF500-R	500mA	32	63	50	0.9800	0.0019	0.66
3216FF750-R	750mA	32	63	50	0.5400	0.0053	0.63
3216FF1-R	1	32	63	50	0.2190	0.030	0.20
3216FF1.25-R	1.25	32	63	50	0.1700	0.046	0.18
3216FF1.5-R	1.5	32	63	50	0.1190	0.093	0.18
3216FF2-R	2	32	63	50	0.0660	0.126	0.16
3216FF2.5-R	2.5	32	63	50	0.0460	0.260	0.14
3216FF3-R	3	32	63	50	0.0360	0.275	0.13
3216FF4-R	4	32	32	50	0.0180	0.337	0.11
3216FF4.5-R	4.5	32	32	50	0.0160	0.405	0.10
3216FF5-R	5	32	32	50	0.0140	0.534	0.09
3216FF6.5-R	6.5	32	32	50	0.0086	2.294	0.076
3216FF7-R	7	32	32	50	0.0070	3.623	0.078
3216FF10-R	10	_	24	150	0.0045	2.0	0.062
3216FF12-R	12	_	24	150	0.0039	7.0	0.070
3216FF15-R	15	_	24	150	0.0031	25.5	0.066
3216FF20-R	20	_	24	150	0.0018	48.6	0.060

- AC Interrupting Rating (Measured at rated voltage with a unity power factor); DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source) DC Cold Resistance (Measured at 10% of rated current)

 Typical Melting I'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 microseconds)

 (6.5A & 7A measured at interrupting rating)

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

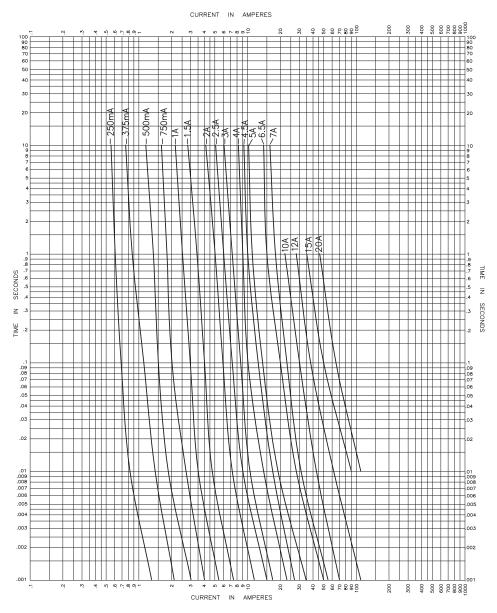
RoHS 2002/95/EC

- It is recommended that fuses be mounted with ceramic (white) 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.

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Time-Current Curves



Packaging			
Packaging Code Prefix	Description		
TR	3000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard RS481		

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