

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# BUSSMANN

### Chip<sup>™</sup> Fuses 3216FF Series, Fast-Acting









#### **Description**

- Fast-acting surface mount fuse
- · Ratings up to 30 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.
- c Nus Recognition File: E19180, Guide JDYX2/JDYX8 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
- Additional resistance to solder heat teast: MIL-STD-202G Method 210F Condition A
- Operating Temperature: -55°C to 125°C

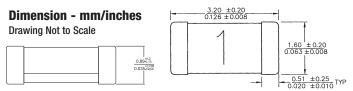
#### **Ordering**

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

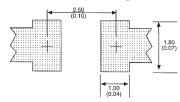
#### **Soldering Method**

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

Electrical Characteristics					
Amp Rating	% of Amp Rating	Opening Time			
250mA - 30A	100%	4 Hrs. Min.			
1.25A - 3A	200%	60 Sec. Max.			
250mA - 3A	250%	5 Sec. Max.			
4A - 7A	350%	1 Sec. Max.			
10A - 30A	350%	5 Sec. Max.			



#### **Recommended Pad Layout - mm (in)**



				Specificatio	ns				
Part	Volt Ratings		Interrupting Rating*	Typical DC Cold	<u> </u>	Typical Voltage	Agency Approvals		
Number	Vac	Vdc	(amps) AC/DC	Resistance (Ω)**	I2t (A2S) DC***	Drop (V)†	UR	CSA	cURus
3216FF250-R	32	63	50	3.5000	0.00038	1.40	Х	Х	
3216FF375-R	32	63	50	1.7500	0.00077	0.73	Х	Х	
3216FF500-R	32	63	50	0.9800	0.00190	0.66	Х	Х	
3216FF750-R	32	63	50	0.5400	0.0053	0.63	Х	X	
3216FF1-R	32	63	50	0.2190	0.030	0.20	Х	Х	
3216FF1.25-R	32	63	50	0.1700	0.046	0.18	Х	Х	
3216FF1.5-R	32	63	50	0.1190	0.093	0.18	X	X	
3216FF2-R	32	63	50	0.0660	0.126	0.16	Χ	Χ	
3216FF2.5-R	32	63	50	0.0460	0.260	0.14	Χ	Χ	
3216FF3-R	32	63	50	0.0360	0.275	0.13	Χ	Χ	
3216FF4-R	32	32	50	0.0180	0.337	0.11	Χ	Χ	
3216FF4.5-R	32	32	50	0.0160	0.405	0.10	Χ	X	
3216FF5-R	32	32	50	0.0140	0.534	0.09	X	X	
3216FF6.5-R	32	32	50	0.0086	2.294	0.076	Х	X	
3216FF7-R	32	32	50	0.0070	3.623	0.078	Х	Х	
3216FF10-R		24	150	0.0045	2.0	0.062	Х		Х
3216FF12-R		24	150	0.0039	7.0	0.070	Х		Х
3216FF15-R		24	150	0.0031	25.5	0.066	Х		Х
3216FF20-R		24	150	0.0018	48.6	0.060	Х		Х
3216FF25-R		24	250	0.0014	32.0	0.057	Х		Х
3216FF30-R		24	300	0.0012	43.0	0.068	X		Х

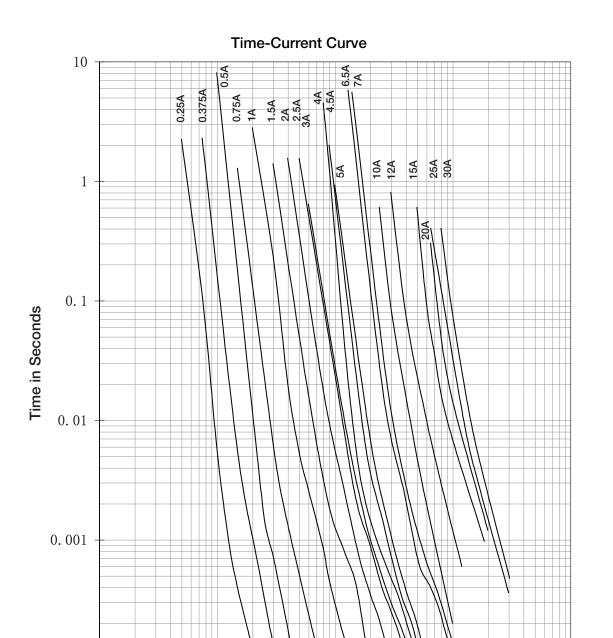
<sup>\*</sup> AC Interrupting Rating measured at rated voltage with a unity power factor; DC Interrupting Rating measured at rated voltage, time constant of less than 50 microseconds, battery source

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<sup>\*\*</sup>Typical DC Cold Resistance measured at 10% of rated current

<sup>\*\*\*</sup>Typical Melting 12t 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 - 30A measured at interrupting rating) †Typical Voltage Drop measured at rated current after temperature stabilizes. 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.



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

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**Current in Amps** 

100

1000

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