

Agency Approvals:  

General Description:

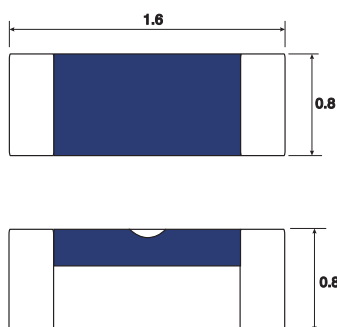
Bussmann SMT Chip Fuses utilise thick and thin metal film technologies for superior fusing action and enhanced reliability. The fuse element is bonded to a ceramic substrate and encapsulated with glass, providing excellent short circuit performance and environmental integrity. Predicted reliability of the 1608FF chip fuse is 30 times greater than that of the typical chip capacitor (consult Bussmann for details). Substrate and coating thermal expansion coefficients are closely matched to that of FR-4 epoxy glass circuit board for superior solder joint reliability. The end terminations are over-plated with nickel and tin base.

Breaking Capacity: 35 A @ rated voltage

Time Current Characteristics:

100% rated current: 4 hours minimum carry.
250% rated current: open within 5 seconds.

Dimensions (mm):



Order Code: Packing Code + 1608FF + Rating

Type: Very Fast Acting

Ratings (A): 250mA to 4A

Rated Voltage: 24V dc



Packing Code Prefix: TR = 3,000 pieces on 8mm tape on a 178mm reel
TR1 = 15,000 pieces on 8mm tape on a 330mm reel
SP = 50 pieces on tape in a plastic box

Performance Data

Part Number xx = Packing Code	Current Rating (A)	Colour Code (Cover/Stripe)	Typ. Resistance @ $\leq 10\%$ Rated Current (Ohms)	Typ. Voltage Drop @ Rated Current (Volts)	Typ. Pre-arcing I^2t @ 35A (A ² sec)	Typ. Operating I^2t @ 35A (A ² sec)
xx/1608FF-250mA	0.25	Green	3.0	0.90	.000067	.000082
xx/1608FF-375mA	0.375	Green/White	2.0	0.80	.00015	.00017
xx/1608FF-500mA	0.5	Blue	0.9	0.54	.00055	.00058
xx/1608FF-750mA	0.75	Blue/White	0.51	0.45	.00132	.00137
xx/1608FF-1A	1	Brown	0.15	0.18	.0022	.0026
xx/1608FF-1.5A	1.5	Brown/White	0.068	0.12	.014	.015
xx/1608FF-2A	2	Black	0.042	0.11	.037	.038
xx/1608FF-2.5A	2.5	Black/White	0.029	0.09	.070	.078
xx/1608FF-3A	3	Violet	0.022	0.087	.095	.107
xx/1608FF-3.5A	3.5	Violet/White	0.018	0.08	.185	.190
xx/1608FF-4A	4	Yellow	0.014	0.08	.270	.272

Notes:

- 1 AC interrupting rating, melting integral and total clearing integral measured at 32V, unity power factor.
- 2 DC interrupting rating, melting integral measured at 63V (250mA-3A) and 32V (4-5A) with battery source.
- 3 It is recommended that fuses be mounted with ceramic (white) side facing up.
- 4 Contact Bussmann if higher ampere ratings are needed.
- 5 For long term reliability, operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperatures.

3216LV/3216CP/3216FF



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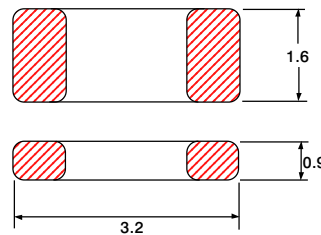
Bussmann SMT Chip Fuses utilise a combination of metal film and ultrasonic wire bond technologies for superior fusing action and enhanced reliability. The fuse element is bonded to the substrate and encapsulated with coloured glass, providing excellent short circuit performance and environmental integrity. The end terminations are over-plated with nickel and tin base.

Breaking Capacity: 3216FF & 3216LV - 50A @ rated voltage
3216CP - 35A @ rated voltage

Time-Current Characteristics:

3216FF & 3216CP - both will carry 100% of rated current for a minimum of 4 hours and will open within 5 seconds at 250% of rated current. The 4A to 5A fuses of the 3216FF will open within 1 second at 350% of rated current.

Dimensions (mm):



Order Code:	Packing Code + 3216LV + Rating
Type:	Fast Acting
Ratings (A):	250mA to 1.5A
Rated Voltage:	125V ac/dc



Order Code:	Packing Code + 3216CP + Rating
Type:	Fast Acting
Ratings :	250mA to 5A
Rated Voltage:	24V dc

Order Code:	Packing Code + 3216FF + Rating
Type:	Fast Acting
Ratings :	250mA to 6.5A
Rated Voltage:	32V ac / 63V dc (250mA - 3A); 32V dc (4 - 5A)

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SP = 50 pieces on tape in a plastic box.