

Type VF216/VF216-P

5ØX20mm

RoHS



Quick Acting High Breaking Capacity



E357828

VF216

VF216-P



Catalog Number	Ampere Rating [In]	Voltage Rating (V)	Nominal Resistance Cold Ohms	Voltage Drop (mv)MAX	Nominal Melting I ² t A ² Sec
VF216/VF216-P .050	50mA	250V*1 or less	15.870	10000	0.00039
VF216/VF216-P .063	63mA		50.230	8800	0.00067
VF216/VF216-P .080	80mA		7.7812	7600	0.00105
VF216/VF216-P .100	100mA		6.0025	7000	0.00318
VF216/VF216-P .125	125mA		3.6781	5000	0.00570
VF216/VF216-P .160	160mA		2.8510	4300	0.01074
VF216/VF216-P .200	200mA		4.0230	3500	0.01589
VF216/VF216-P .250	250mA		1.8670	2800	0.02106
VF216/VF216-P .315	315mA		0.3192	2500	0.04505
VF216/VF216-P .400	400mA		0.8920	2000	0.08400
VF216/VF216-P .500	500mA		0.7500	1800	0.18257
VF216/VF216-P .630	630mA		0.3624	1500	0.28712
VF216/VF216-P .800	800mA		0.2962	1200	0.38481
VF216/VF216-P 001	1A		0.2310	1000	0.28982
VF216/VF216-P 1.25	1.25A		0.1562	800	0.87974
VF216/VF216-P 1.50	1.50A		0.1354	800	0.99613
VF216/VF216-P 1.60	1.6A		0.1216	600	1.02649
VF216/VF216-P 002	2A		0.0757	500	1.84254
VF216/VF216-P 2.50	2.5A		0.0573	400	3.34225
VF216/VF216-P 3.15	3.15A		0.0369	350	7.59874
VF216/VF216-P 004	4A		0.0257	300	15.1050
VF216/VF216-P 005	5A		0.0198	250	32.3153
VF216/VF216-P 6.30	6.3A		0.0145	200	63.4221
VF216/VF216-P 008	8A		0.0124	200	105.800
VF216/VF216-P 010	10A		0.0076	200	160.012
VF216/VF216-P 012	12A		0.0061	200	218.002
VF216/VF216-P 12.5	12.5A		0.0053	200	236.002
VF216/VF216-P 015	15A		0.0045	200	341.240
VF216/VF216-P 016	16A		0.0040	200	484.240
VF216/VF216-P 020	20A		0.0026	200	1384.40
VF216/VF216-P 025	25A		0.0024	200	1468.20

*1 More than 250V with new material number

Approval

Recognized Component for Canada and U.S.	50mA~25A
TUV	100mA~20A
CCC	100mA~10A
CQC	12.5A~20A

Electrical Characteristic

(IEC-60127-2 STANDARD SHEET1)

Rated Current	1.5In MIN	2.1In MAX	2.75 In MIN	4 In MAX	10 In MIN	10 In MAX
50mA~4A	60 min	30 min	10 ms	2 sec	3 ms	300 ms
5A~6.3A	60 min	30 min	10 ms	3 sec	3 ms	300 ms
8A~25A	30 min	30 min	40 ms	20 sec	10 ms	1 sec

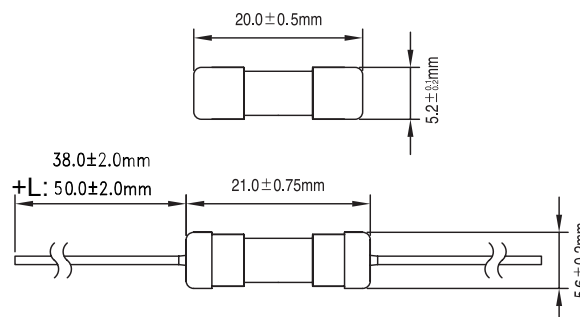
Interrupting Rating

50mA~16A: 1500 amperes at 250V AC.

50mA~25A: 1500 amperes at 250V DC.

15A~25A: 300 amperes at 250VAC.

Mechanical Dimension



Physical Specification

Material

Ceramic body / Nickel Plated Brass Caps

Lead Wire:

Diameter Ø0.8mm 12A and less.

Diameter Ø1.0mm for rating above 15A.

Packaging

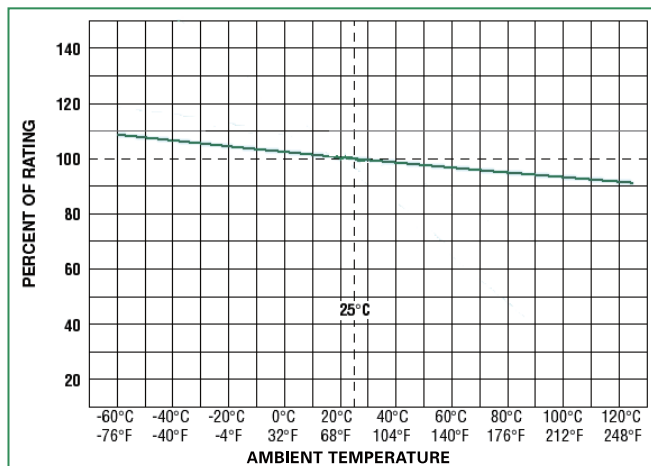
In Bulk:

VF216-500 pcs ; VF216-P-300 pcs per box

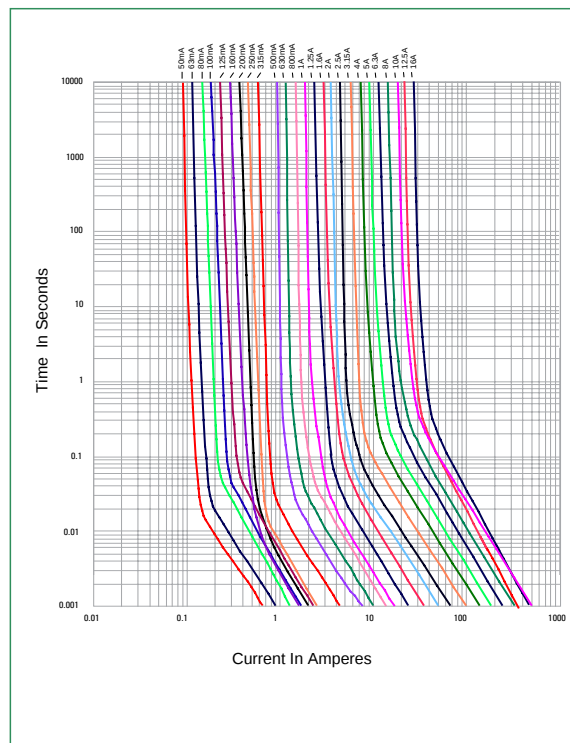
Environmental Specification

Operating Temperature -55°C to +125°C

Temperature Derating Curve



Average Time Current Curves



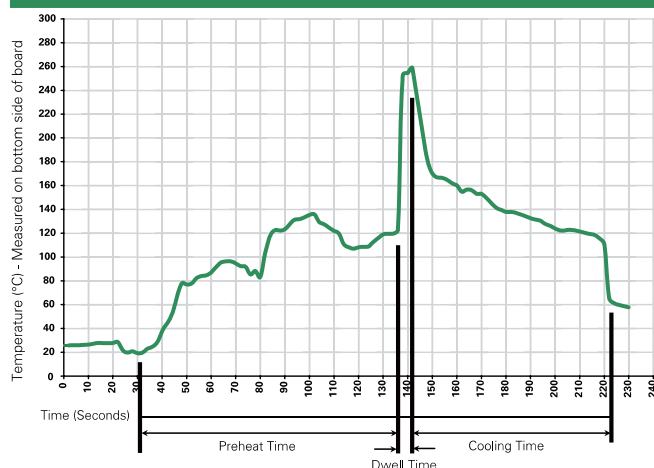
Part Numbering System

SERIES VF216 -P **AMP Code** 001 **L** **T** **AL**

With Lead wire _____
 Lead Wire Length 38mm without L _____
 Lead Wire Length 50mm with L _____
 Lead Wire Length 45mm with L45 _____
 Special purpose _____

Radial lead forming type

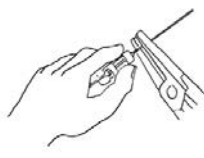
Soldering Parameters



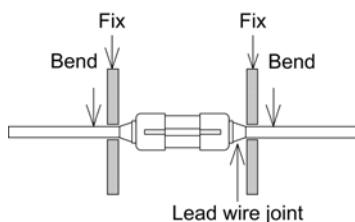
When forming by hand

○ Correct

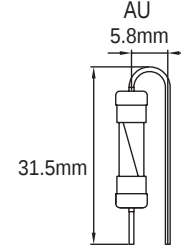
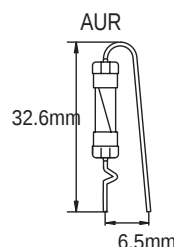
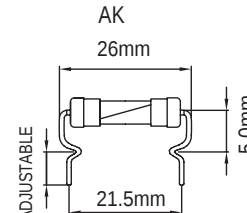
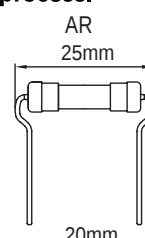
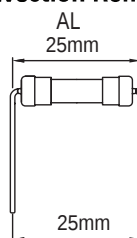
× Incorrect



When forming with forming dies



For reference only



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	260° C Maximum
Solder Dwell Time:	2-5 seconds

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5° C
 Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.