

Fast-Acting Subminiature Fuses

6125FF Series



Description

- Fast-acting surface mount fuse
- Overcurrent protection of systems up to 125Vac/72Vdc
- High inrush withstand capability
- Solder immersion compatible

Electrical Characteristics	
% of Amp Rating	Opening Time
100%	4 Hours Minimum
200%	5 Second Maximum

Agency Information

- Recognition File: E19180

Environmental Data

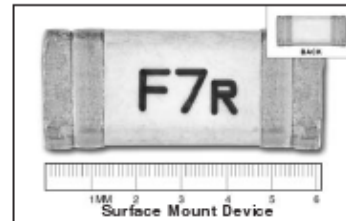
- Operating temperature: -55°C to 125°C
- Mechanical shock: MIL-STD-202, Method 213
- High frequency vibration: MIL-STD-202, Method 204
- Load humidity: MIL-STD-202, Method 103
- Moisture resistance: MIL-STD-202, Method 106
- Resistance to solvents: MIL-STD-202, Method 215
- Thermal shock: MIL-STD-202, Method 107

Ordering

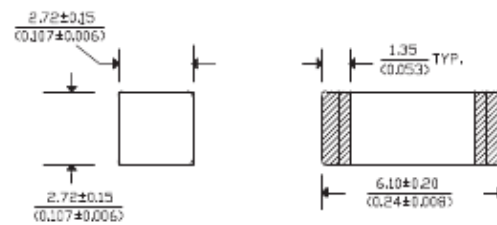
- Specify packaging and product code (i.e., TR2/6125FF500-R)

Soldering Method

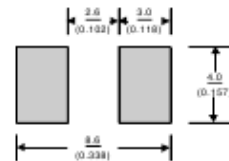
- Wave immersion: 260°C, 10 Sec. max.
- Solder reflow: 260°C, 30 Sec. max.



Dimensions - mm (in)



Recommended Pad Layout - mm (in)



Specifications									
Part Number	Current Rating (amps)	Voltage Rating		Interrupting Rating (amps)			DC Cold Resistance (mΩ) Typ.	Melting I ² t (A ² sec)	Typical Voltage Drop (mV)
		Vac	Vdc	125Vac	72Vdc	32Vdc			
6125FF500-R	500mA	125	72	50	50	300	750	0.08	605
6125FF750-R	750mA	125	72	50	50	300	350	0.152	433
6125FF1-R	1	125	72	50	50	300	260	0.22	415
6125FF1.25-R	1.25	125	72	50	50	300	171	0.355	410
6125FF1.5-R	1.5	125	72	50	50	300	112	0.456	365
6125FF2-R	2	125	72	50	50	300	49	1.67	160
6125FF2.5-R	2.5	125	72	50	50	300	45	5.20	155
6125FF3-R	3	125	72	50	50	300	35	6.24	153
6125FF3.5-R	3.5	125	72	50	50	300	27	7.28	150
6125FF4-R	4	125	72	50	50	300	26	7.4	145
6125FF5-R	5	125	72	50	50	300	17	9.5	141
6125FF6.3-R	6.3	125	72	50	50	300	14	15.1	135
6125FF7-R	7	125	72	50	50	300	11	37.25	112
6125FF8-R	8	125	72	50	50	300	8.7	70	110
6125FF10-R	10	125	72	50	50	300	7.3	67.75	110
6125FF12-R	12	125	72	50	50	300	5.3	210.59	106
6125FF15-R	15	125	72	50	50	300	4.2	296.10	104

* AC Interrupting Rating (Measured at designated voltage, 100% power factor); DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)

** Typical Melting I²t (Measured at 72Vdc, 10X rated current (not exceed 50A - RT @ 72Vdc)

Description

- Fast-acting surface mount fuse

- Overcurrent protection of systems up to 125Vac/72Vdc
- High inrush withstand capability
- Solder immersion compatible

Electrical Characteristics % of Amp Rating Opening Time

100% 4 Hours Minimum 200% 5 Second Maximum

Surface Mount Device

Agency Information

- Recognition File: E19180 Environmental Data
 - Operating temperature: -55°C to 125°C
 - Mechanical shock: MIL-STD-202, Method 213
 - High frequency vibration: MIL-STD-202, Method 204
 - Load humidity: MIL-STD-202, Method 103
 - Moisture resistance: MIL-STD-202, Method 106
 - Resistance to solvents: MIL-STD-202, Method 215
 - Thermal shock: MIL-STD-202, Method 107 Ordering
 - Specify packaging and product code (i.e., TR2/6125FF500-R) Soldering Method
 - Wave immersion: 260°C, 10 Sec. max.
 - Solder reflow: 260°C, 30 Sec. max.
- * AC Interrupting Rating (Measured at designated voltage, 100% power factor); DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source) ** Typical Melting I_{2t} (Measured at 72Vdc, 10X rated current (not exceed 50A - IR @ 72Vdc)

Dimensions - mm (in)

Recommended Pad Layout - mm (in)

Specifications Part Current Voltage Interrupting DC Cold

Melting Typical Number Rating Rating Rating (amps) Resistance I_{2t} Voltage

(amps) Vac Vdc 125Vac 72Vdc 32Vdc (mΩ) Typ. (A2 sec) Drop (mV) 6125FF500-R 500mA
 125 72 50 50 300 750 0.08 605 6125FF750-R 750mA 125 72 50 50 300 350 0.152 433 6125FF1-R 1 125 72 50
 50 300 260 0.22 415 6125FF1.25-R 1.25 125 72 50 50 300 171 0.355 410 6125FF1.5-R 1.5 125 72 50 50 300 112
 0.456 365 6125FF2-R 2 125 72 50 50 300 49 1.67 160 6125FF2.5-R 2.5 125 72 50 50 300 45 5.20 155 6125FF3-
 R 3 125 72 50 50 300 35 6.24 153 6125FF3.5-R 3.5 125 72 50 50 300 27 7.28 150 6125FF4-R 4 125 72 50 50 300
 26 7.4 145 6125FF5-R 5 125 72 50 50 300 17 9.5 141 6125FF6.3-R 6.3 125 72 50 50 300 14 15.1 135 6125FF7-R
 7 125 72 50 50 300 11 37.25 112 6125FF8-R 8 125 72 50 50 300 8.7 70 110 6125FF10-R 10 125 72 50 50 300 7.3
 67.75 110 6125FF12-R 12 125 72 50 50 300 5.3 210.59 106 6125FF15-R 15 125 72 50 50 300 4.2 296.10 104

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Fast-Acting Subminiature Fuses 6125FF Series

2.6 3.0 (0.102) (0.118)

4.0 (0.157)

8.6 (0.338)

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Time-Current Curve

Packaging Code Packaging Code Prefix Description

TR2 5,000 fuses on tape-and-reel on a 13 inch (330mm) reel

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CURRENT IN AMPS

CURRENT IN AMPS

no

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