

THIN-FILM SURFACE MOUNT

1206 SMF Very Fast-Acting Thin-Film Type 429 Series



- The 1206 SMF is an extremely small, low profile design (1206 chip size) utilizing thin-film technology to achieve precise control of electrical characteristics.
- New one-piece element/termination design assures extra reliability by eliminating the need for soldering, welding or other joining operations in the manufacture of the fuse.
- Semi-rigid substrate eliminates the potential for thermal shock fractures and decreases the risk of mechanical damage during pick and place operations.

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time at 25°C
100%	4 hours, Minimum
200%	5 seconds, Maximum
300%	0.2 seconds, Maximum

AGENCY APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA.

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

INTERRUPTING RATINGS:

0.125 – 3A 50 amperes at rated voltage, VAC/VDC
4 – 7A 35 amperes at rated voltage, VAC/VDC

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature: –55°C to 125°C.

Vibration: Withstands 10–55 Hz per MIL-STD-202F, Method 201A and 10–2000 Hz at 20 G's per MIL-STD-202F, Method 204D, Condition D.

Insulation Resistance (After Opening): Greater than 10 KOhm.

Resistance to Soldering Heat: Withstands 60 seconds above 200°C up to 260°C, maximum.

Thermal Shock: Withstands 5 cycles of –55° to 125°C.

PHYSICAL SPECIFICATIONS:

Materials: Body: Epoxy Substrate

Terminations: Copper/Nickel/Tin-Lead (95/5)

Cover Coat: Conformal Coating

Soldering Parameters:

Wave Solder — 260°C, 10 seconds maximum

Reflow Solder — 260°C, 30 seconds maximum

PACKAGING SPECIFICATIONS: 8mm Tape and Reel per EIA-RS481-2 (IEC 286, part 3); 3,000 per reel, add packaging suffix, WR.

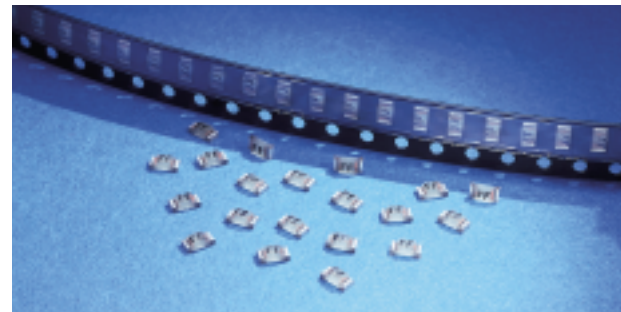
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ORDERING INFORMATION:

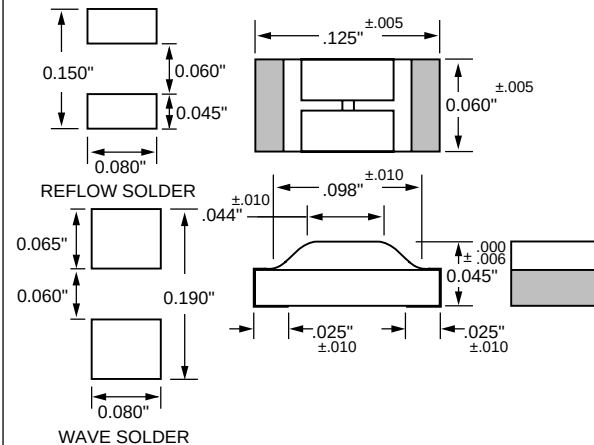
Catalog Number	Ampere Rating	Marking Code	Nominal Voltage Rating	Nominal Resistance Cold Ohms ¹	Nominal Voltage Drop (V) ²	Melting I ² t (A ² Sec.) ³
429.125	1/8	FB	125	2.30000	0.200	0.00020
429.200	2/10	FC	125	0.93800	0.175	0.00055
429.250	1/4	FD	125	0.62500	0.160	0.00100
429.375	3/8	FE	125	0.37500	0.138	0.00280
429.500	1/2	FF	63	0.24050	0.130	0.0060
429.750	3/4	FG	63	0.13700	0.120	0.0170
429.001	1	FH	63	0.09950	0.115	0.035
429.1.25	1 1/4	FJ	63	0.07475	0.108	0.065
429.01.5	1 1/2	FK	63	0.06250	0.101	0.125
429.1.75	1 3/4	FL	63	0.05000	0.096	0.150
429.002	2	FN	63	0.03975	0.093	0.230
429.02.5	2 1/2	FO	32	0.03065	0.087	0.50
429.003	3	FP	32	0.02625	0.080	0.70
429.004	4	FS	24	0.01926	0.070	1.5
429.005	5	FT	24	0.01375	0.065	2.7
429.007	7	FU	24	0.00925	0.060	3.6

¹ Measured at 10% of rated current, 25°C. ² Measured at 100% of rated current, 25°C.

³ Measured at rated voltage.



RECOMMENDED PAD LAYOUTS



Average Time Current Curves

