

THIN-FILM SURFACE MOUNT

Slim 0603 Very Fast-Acting Thin-Film Type 434 Series



- The Slim 0603 is an extremely small, low profile design (0603 chip size) utilizing thin-film technology to achieve precise control of electrical characteristics.
- One-piece element/termination design assures reliability by eliminating the need for soldering, welding or other joining operations in the manufacture of the fuse.
- The lower height profile produces a flat surface for improved performance in pick-and-place operations and an alternate solution for height critical applications.
- Mounting pad and electrical specification are identical to the popular (431) Series specifications.

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:

.25–1A 50 A @ 32 V AC/DC
1.25–5A 35 A @ 32 V AC/DC

ENVIRONMENTAL SPECIFICATIONS:

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

Vibration: Per MIL-STD-202F.

Insulation Resistance (After Opening): Greater than 10,000 ohms.

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

Shelf Life (Solderability): 1 year min.

Thermal Shock: Withstands 5 cycles of –55°C 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

Infrared Solder— 260°C, 30 seconds maximum

PACKAGING SPECIFICATIONS: 8mm Tape and Reel per EIA-RS481 (IEC 286, part 3); 5,000 per reel, add packaging suffix, NR.

PATENTS: Patent Pending

ORDERING INFORMATION:

Catalog Number	Ampere Rating	Marking Code	Voltage Rating	Nominal Resistance Cold Ohm ¹	Melting I ² t (A ² Sec.)
0434.250	1/4	D	32	0.375	0.0030
0434.375	3/8	E	32	0.265	0.0053
0434.500	1/2	F	32	0.193	0.0087
0434.750	3/4	G	32	0.114	0.0171
0434.001	1	H	32	0.072	0.0210
0434.1.25	1 1/4	J	32		
0434.01.5	1 1/2	K	32	0.048	0.0696
0434.1.75	1 3/4	L	32		
0434.002	2	N	32	0.036	0.104
0434.02.5	2 1/2	O	32	0.028	0.175
0434.003	3	P	32	0.023	0.198
0434.004	4	S	32	0.017	0.420
0434.005	5	T	32	0.013	0.600

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

²Measured at rated voltage.

