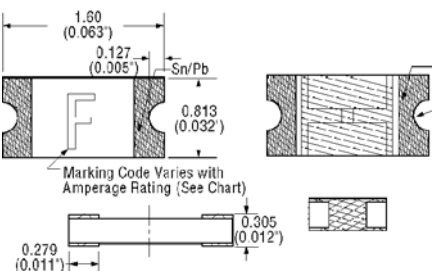


SlimLine 0603
Very Fast-Acting
Thin-Film Type
434 Series

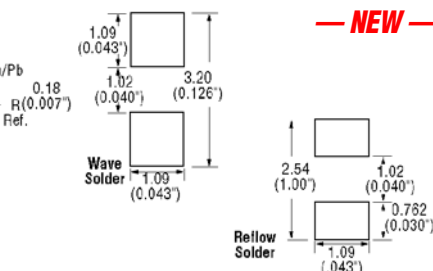
Electrical Characteristics

% of Ampere Rating	Opening Time at 25°C
100%	4.0 hours, Minimum
200%	5.0 seconds, Maximum
300%	0.2 seconds, Maximum

► The SlimLine 0603 Is an Extremely Small, Low Profile Design (0603 Chip Size) Utilizing Thin-Film Technology to Achieve Precise Control of Electrical Characteristics



► 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

Agency Approvals: Recognized under the Components Program of Underwriters Laboratories and certified by CSA. **Agency File Numbers:** UL E10480, CSA LR 29862. **Interrupting Ratings:** 0.25-1 A — 50 A @ 32 VAC/VDC; 1.25-5 A — 35 A @ 32 VAC/VDC. **Environmental Specifications. Operating Temperature:** -55°C to 90°C. For operation above 90°C contact your local Allied sales representative. **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 Specification. 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:** 8 mm tape and reel per EIA-RS481 (IEC 286, part 3); 5,000 per reel, add packaging suffix, NR. **Patents:** Patent pending. **Voltage Rating:** 32.

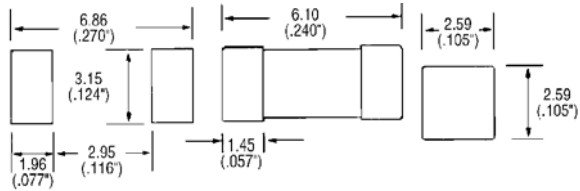
Stock No.	Mfr.'s Type	Ampere Rating	Marking Code	Nominal Resistance Cold Ohm*	Melting Pt (A Sec.)†	PER PK./100		
						1-4	5-9	10-Up
846-0808	0434.250	1/4	D	0.375	0.0030	44.88	41.14	37.98
846-0810	0434.375	3/4	E	0.265	0.0053	44.88	41.14	37.98
846-0812	0434.500	1/2	F	0.193	0.0087	44.88	41.14	37.98
846-0814	0434.750	3/4	G	0.114	0.0171	44.88	41.14	37.98
846-0816	0434001.	1	H	0.072	0.0210	44.88	41.14	37.98
846-0817	04341.25	1 1/4	J	0.054	0.0320	44.88	41.14	37.98
846-0818	043401.5	1 1/2	K	0.048	0.0696	44.88	41.14	37.98

*Measured at 10% of rated current, 25°C. †Measured at rated voltage.

Stock No.	Mfr.'s Type	Ampere Rating	Marking Code	Nominal Resistance Cold Ohm*	Melting Pt (A Sec.)†	PER PK./100		
						1-4	5-9	10-Up
846-0819	04341.75	1 1/4	L	0.039	0.0661	44.88	41.14	37.98
846-0820	0434002.	2	N	0.036	0.1040	44.88	41.14	37.98
846-0822	04342.50	2 1/2	O	0.028	0.1750	44.88	41.14	37.98
846-0824	0434003.	3	P	0.023	0.1980	44.88	41.14	37.98
846-0828	0434004.	4	S	0.017	0.4200	44.88	41.14	37.98
846-0830	0434005.	5	T	0.013	0.6000	44.88	41.14	37.98
—	—	—	—	—	—	—	—	—

*Measured at 10% of rated current, 25°C. †Measured at rated voltage.

Nano^{2™} Fuses



Nano^{2™} Very Fast-Acting Type Fuses

Recognized under the Components Program of Underwriters Laboratories and Certified by CSA. Approved by MITI from 1 through 5 amperes. **Operating Temperature:** -55°C to 125°C. **Shock:** MIL-STD-202, Method 213, Test Condition 1 (100 Gs peak for 6 milliseconds). **Vibration:** MIL-STD-202, Method 201 (10-55 Hz, 0.06 in. total excursion). **Salt Spray:** MIL-STD-202, Method 101, Test Conditions B (48 hours). **Insulation Resistance (After Opening):** MIL-STD-202, Method 302, Test Condition A, (10,000 ohms minimum). **Resistance to Soldering Heat:** MIL-STD-202, Method 210, Test Conditions F (20 sec. at 260°C). **Thermal Shock:** MIL-STD-202, Method 107, Test Condition B (-65° to 125°C). **Moisture Resistance:** MIL-STD-202, Method 106, High Humidity (90-98 RH), Heat (65°C). **Materials:** Ceramic Body/Tin-Lead Alloy Plated Brass Caps. **Soldering Parameters. Wave Solder:** 500°F (260°C), 10 sec. **Infrared:** 500°F (260°C), 30 sec. **Solderability:** MIL-STD-202, Method 208. **Voltage Rating:** 125. **Agency File Numbers:** UL E10480, CSA LR 29862.

Stock No.	Mfr.'s Type	Ampere Rating	Nominal Resistance Cold Ohms	Nominal Melting Pt A° Sec.	PER PK./100		
					1-3	4-6	7-9
845-5010	R451.062	1/16	5.5000	0.00019	108.38	96.33	86.70
845-5011	R451.125	1/8	1.7000	0.00286	108.38	96.33	86.70
845-5012	R451.250	1/4	1.0500	0.01126	132.60	120.55	110.50
845-5013	R451.375	3/8	0.6100	0.04250	67.32	61.20	56.10
845-5014	R451.500	1/2	0.4200	0.07950	95.61	85.00	76.49
845-5015	R451.750	3/4	0.2450	0.18500	132.60	120.55	110.50
845-5016	R451.001	1	0.1530	0.45900	83.38	74.12	66.92
845-5017	R451.01.5	1 1/2	0.0630	0.85300	132.60	120.55	110.50
845-5018	R451.002	2	0.0367	0.53000	88.23	78.43	70.81
845-5019	R451.02.5	2 1/2	0.0286	1.02900	70.79	58.99	54.45
845-5020	R451.003	3	0.0227	1.65000	132.60	120.55	110.50
845-5021	R451.004	4	0.0160	3.15200	132.60	120.55	110.50
845-5023	R451.005	5	0.0125	5.56600	52.02	48.02	44.59
845-5024	R451.007	7	0.0090	10.32000	83.38	74.12	66.92
845-7025	R451.010	10	0.0056	26.46000	83.38	74.12	66.92
845-7026	R451.012*	12	0.0043	47.97000	91.28	84.99	80.79
845-7027	R451.015*	15	0.0037	97.82000	210.73	191.57	175.61

*Voltage Rating: 65. Tape and reel available.

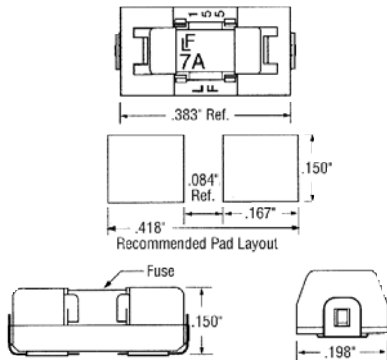
Nano^{2™} Slo-Blo® Type Fuses

Recognized under the Components Program of Underwriters Laboratories and Certified by CSA. **Interrupting Ratings:** 50 amperes at 125 VAC. 50 amperes at 125 VDC. **Operating Temperature:** -55°C to 125°C. **Shock:** MIL-STD-202, Method 201 (10-55 Hz, 0.06 in. total excursion). **Salt Spray:** MIL-STD-202, Method 101, Test Condition B (48 hours). **Insulation Resistance (after Opening):** MIL-STD-202, Method 302, Test Condition A, (10,000 ohms minimum). **Resistance to Soldering Heat:** MIL-STD-202, Method 210 (3 sec. at 260°C). **Thermal Shock:** MIL-STD-202, Method 107, Test Condition B (-65 to 125°C). **Moisture Resistance:** MIL-STD-202, Method 106, High Humidity (90-98 RH), Heat (65°). **Materials:** Ceramic Body/Tin-Lead Alloy Plated Brass Caps. **Soldering Parameters. Wave Solder:** 500°F (260°C), 3 seconds, max. **Infrared Reflow:** 446°F (230°C) max. **Solderability:** MIL-STD-202, Method 208. **Marking:** The 452 000 series Slo-Blo fuse marking includes the letter "T" to designate time delay characteristics. **Voltage Rating:** 125. **Agency File Numbers:** UL E10480, CSA LR 29862.

Stock No.	Mfr.'s Type	Ampere Rating	Nominal Resistance Cold Ohms	Nominal Melting Pt A° Sec.	PER PK./100		
					1-3	4-6	7-9
845-5040	R452.001	1	0.2700	1.98	116.79	103.81	93.43
845-5041	R452.01.5	1 1/2	0.1160	3.65	113.22	100.64	90.58
845-5042	R452.002	2	0.0760	8.20	113.22	100.64	90.58
845-5044	R452.003	3	0.0414	20.16	113.22	100.64	90.58
845-5046	R452.004	4	0.0186	34.40	113.22	100.64	90.58

Tape and reel available.

Omni-Blok® SMF Fuse Block
Molded Base and Fuse



Recognized under the Components Program of Underwriters Laboratories and Certified by CSA. **Electricals:** 7 amperes, 125 volts. **Molded Parts:** Thermoplastic (94 V0). **Terminals:** Tin/Lead Alloy Plated Beryllium Copper. **Ambient Temperature:** -55°C to 125°C. **Shock:** MIL-STD-202, Method 213, Test Condition 1 (100 Gs peak for 6 milliseconds). **Vibration:** MIL-STD-202, Method 201 (10-55Hz). **Thermal Shock:** MIL-STD-202, Method 107, Condition A (200 cycles — 30 minutes at -55°C, 30 minutes at 125°C). **Soldering Parameters (Fuse Installed). Infrared:** 500°F (260°C), 30 sec.; 445°F (230°C), 30 sec. **Solderability:** MIL-STD-202, Method 208. Each base comes with fuse.

Stock No.	Mfr.'s Type	Ampere Rating	PER PK./100		
			1-3	4-6	7-9
845-5060	154.062	1/16	106.57	102.00	95.20
845-5064	154.500	1/2	164.22	149.29	136.85
845-5065	154.750	3/4	261.32	237.57	217.77
845-5066	154.001	1	290.13	261.12	237.38
845-5067	154.01.5	1 1/2	159.44	134.64	121.18
845-5068	154.002	2	159.44	134.64	121.18
845-5070	154.003	3	159.44	134.64	121.18
845-5072	154.004	4	159.44	134.64	121.18
845-5075	154.005	5	261.32	237.57	217.77
845-5074	154.007	7	166.70	140.77	126.69

Note: See R451 Series for fuse replacements. Tape and reel available.