

SUBMINIATURE

PICO® II Very Fast-Acting Type Fuse



The PICO® II very fast-acting fuse is designed to meet an extensive array of performance characteristics in a space-saving subminiature package.

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
100%	1/16-15	4 hours, Minimum
200%	1/16-7	1 second, Maximum
	10	3 seconds, Maximum
	12-15	10 seconds, Maximum

AGENCY APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA. Approved by MITI from 1 through 5 amperes.

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

REFERENCE TO MIL SPEC: Available in Military QPL type FM10, conforming to MIL-PRF-23419. To order, change 251 to 253 as shown below.

INTERRUPTING RATINGS:

300 amperes at 125 VDC.

50 amperes at 125 VAC.

ENVIRONMENTAL SPECIFICATIONS:

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

Shock: MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds).

Vibration: MIL-STD-202, Method 201 (10-55 Hz); Method 204, Test Condition C (55-2000 Hz at 10 G's Peak).

Moisture Resistance: MIL-STD-202, Method 106.

PHYSICAL SPECIFICATIONS:

Materials: Encapsulated, Epoxy-Coated Body; Solder Coated Copper Wire Leads.

Soldering Parameters:

Wave Solder — 260°C, 10 seconds maximum.

Solderability: MIL-STD-202, Method 208.

Lead Pull Force: MIL-STD-202, Method 211, Test Condition A (will withstand a 7 lb. axial pull test).

PACKAGING SPECIFICATIONS: Tape and Reel per EIA-296; T1: 2.062" (52.4mm) taped spacing; 5,000 per reel.

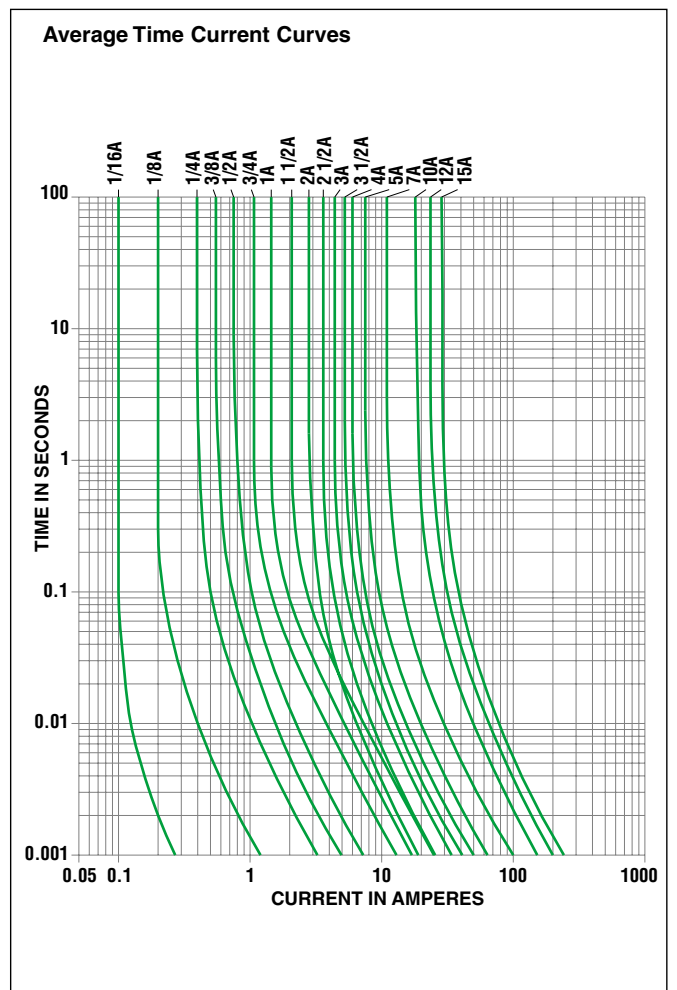
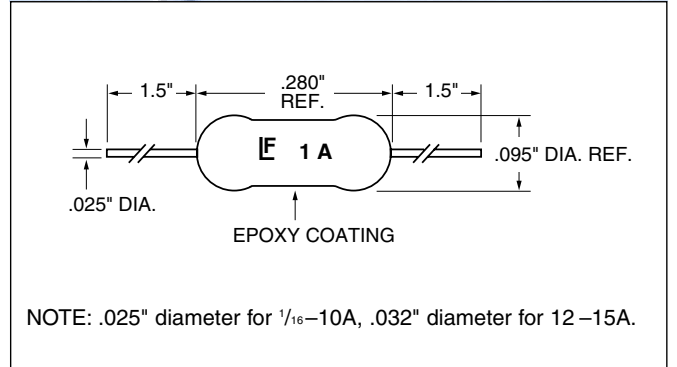
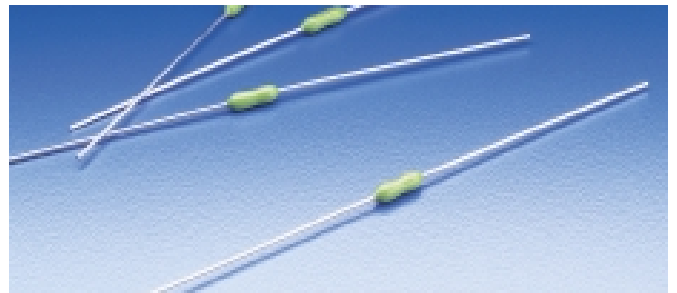
Option: Radial Lead Version; 0.4" lead spacing; to order, change 251 to 252.

PATENTED

ORDERING INFORMATION:

Std. Type Catalog Number	Mil. Type Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I ² t A ² Sec.
R251.062	R253.062	1/16	125	7.0	0.000113
R251.125	R253.125	1/8	125	1.70	0.00174
R251.250	R253.250	1/4	125	0.665	0.0116
R251.375	R253.375	3/8	125	0.395	0.0296
R251.500	R253.500	1/2	125	0.280	0.0598
R251.750	R253.750	3/4	125	0.175	0.153
R251 001	R253 001	1	125	0.128	0.256
R251 01.5	R253 01.5	1 1/2	125	0.0823	0.587
R251 002	R253 002	2	125	0.0473	0.405
R251 02.5		2 1/2	125	0.0360	0.721
R251 003	R253 003	3	125	0.0290	1.19
R251 03.5		3 1/2	125	0.0240	1.58
R251 004	R253 004	4	125	0.0204	2.45
R251 005	R253 005	5	125	0.0155	4.14
R251 007	R253 007	7	125	0.0105	10.4
R251 010	R253 010	10	125	0.00705	25.5
R251 012		12	32	0.0055	45.2
R251 015	R253 015	15	32	0.00446	68.8

Note: Higher Ampere Ratings Available.
Contact Technical Assistance for Details



SUBMINIATURE

PICO® II Slo-Blo® Type Fuse



The PICO® II Slo-Blo® fuse combines time delay performance characteristics with the proven reliability of a PICO® fuse.

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
100%	4 hours, Minimum
200%	1 second, Min. ; 60 seconds, Max.
300%	0.2 second, Min. ; 3 seconds, Max.
800%	0.02 second, Min. ; 0.1 second, Max.

AGENCY APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA. Approved by MITI from 1 through 5 amperes.

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

INTERRUPTING RATING:
50 amperes at 125 VDC/VAC

ENVIRONMENTAL SPECIFICATIONS:

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

Shock: MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds).

Vibration: MIL-STD-202, Method 201 (10-55 Hz); MIL-STD-202, Method 204, Test Condition C (55-2000 Hz at 10 G's Peak).

Salt Spray: MIL-STD-202, Method 101, Test Condition B.

Insulation Resistance (After Opening): MIL-STD-202, Method 302, (10,000 ohms minimum at 100 volts).

Resistance to Soldering Heat: MIL-STD-202, Method 210, Test Condition C (20 sec at 260°C).

Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65°C to 125°C).

Moisture Resistance: MIL-STD-202, Method 106 (90-98% RH), Heat (65°C).

PHYSICAL SPECIFICATIONS:

Materials: Encapsulated, Epoxy-Coated Body; Solder Coated Copper Wire Leads.

Soldering Parameters:

Wave Solder — 260°C, 3 seconds maximum.

Solderability: MIL-STD-202, Method 208.

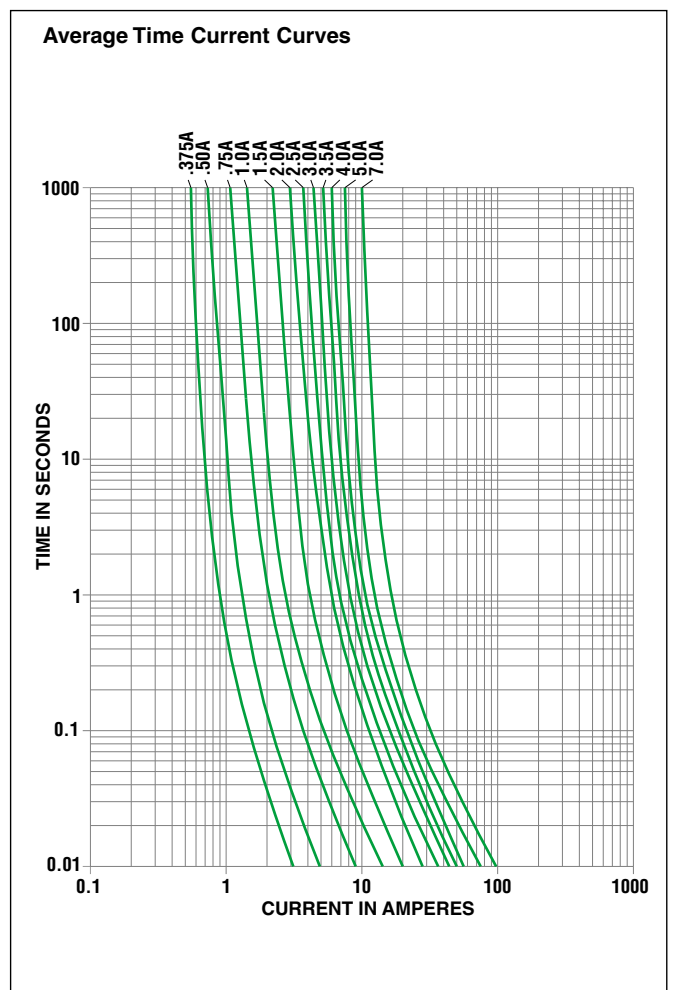
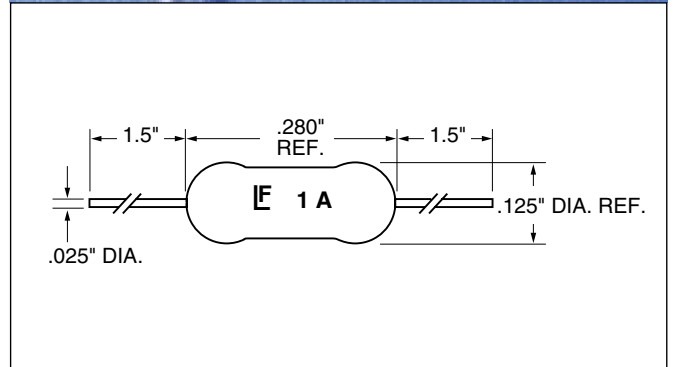
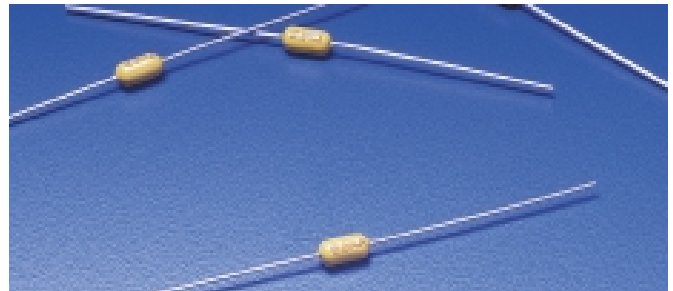
Lead Pull Force: MIL-STD-202, Method 211, Test Condition A (will withstand a 10 lb. axial pull test).

PACKAGING SPECIFICATIONS: Tape and Reel per EIA-296; T1: 2.062" (52.4mm) taped spacing; 4,000 per reel.

PATENTED

ORDERING INFORMATION:

Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I ² t A ² Sec.
473.375	3/8	125	1.74	0.0850
473.500	1/2	125	1.13	0.210
473.750	3/4	125	0.460	0.760
473 001	1	125	0.267	2.01
473 01.5	1½	125	0.116	3.94
473 002	2	125	0.0712	7.60
473 2.25	2¼	125	0.0630	9.28
473 02.5	2½	125	0.0520	13.0
473 003	3	125	0.0380	21.0
473 03.5	3½	125	0.0240	26.8
473 004	4	125	0.0194	35.0
473 005	5	125	0.0133	54.8
473 007	7	125	0.0092	105.0



SUBMINIATURE

PICO® II 250 Volt Very Fast-Acting Type Fuse



The PICO® II 250 Volt Fuse is a specially designed axial leaded fuse that achieves a 250 volt rating in a small package for both domestic and international applications.

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
100%	4 hours, Minimum
200%	1 second, Maximum
300%	0.1 second, Maximum

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

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

INTERRUPTING RATING:

50 amperes at 250 VAC.

ENVIRONMENTAL SPECIFICATIONS:

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

Shock: MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds).

Vibration: MIL-STD-202, Method 201 (10-55 Hz); MIL-STD-202, Method 204, Test Condition C (55-2000 Hz at 10 G's Peak).

Salt Spray: MIL-STD-202, Method 101, Test Condition B (48 hrs.).

Insulation Resistance (After Opening): MIL-STD-202, Method 302, Test Condition A (10,000 ohms minimum at 100 volts).

Resistance to Soldering Heat: MIL-STD-202, Method 210, Test Condition C (10 sec at 260°C).

Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-55°C to 125°C).

Moisture Resistance: MIL-STD-202, Method 106.

PHYSICAL SPECIFICATIONS:

Materials: Encapsulated, Epoxy-Coated Body; Solder Coated Copper Leads.

Soldering Parameters:

Wave Solder — 260°C, 10 seconds maximum.

Solderability: MIL-STD-202, Method 208.

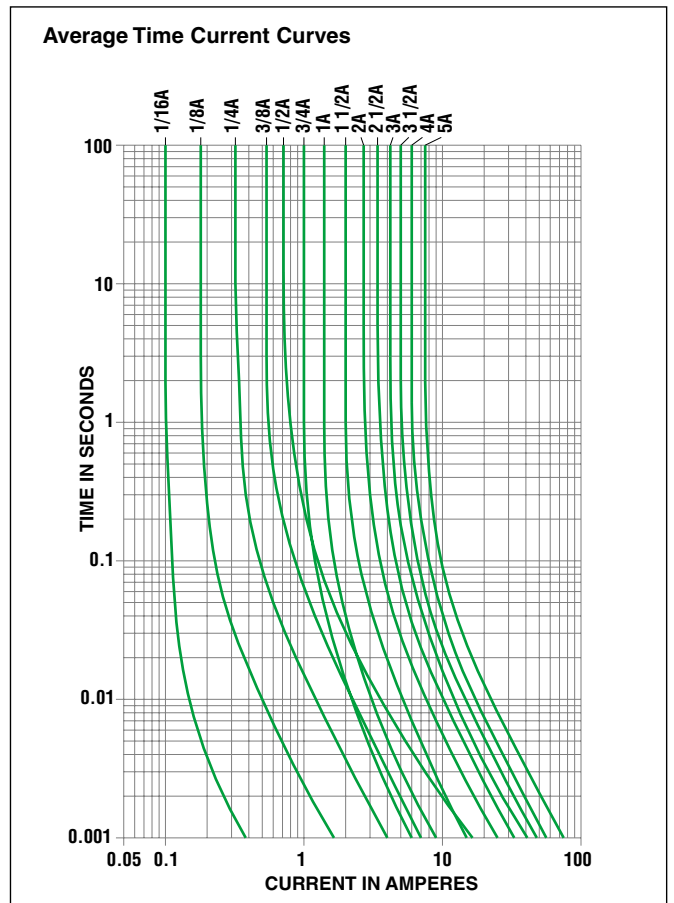
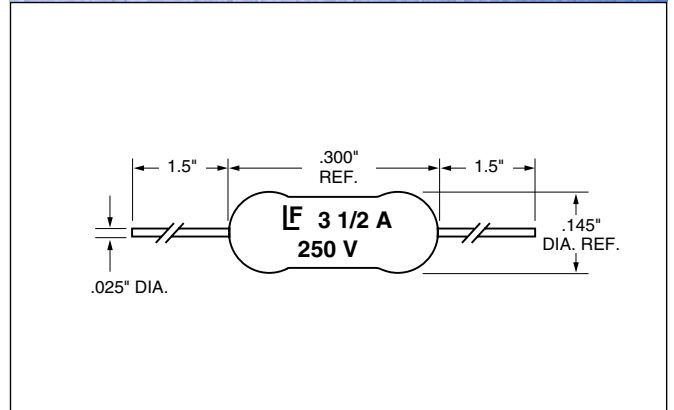
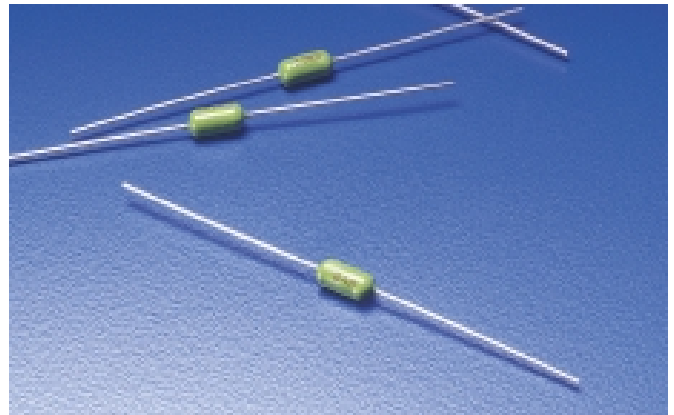
Lead Pull Force: MIL-STD-202, Method 211, Test Condition A (will withstand 7 lb. axial pull test).

PACKAGING SPECIFICATIONS: Tape and Reel per EIA-296; T1: 2.062" (52.4mm) taped spacing; 4,000 per reel.

PATENTED

ORDERING INFORMATION:

Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I ² t A ² Sec.
263.062	1/16	250	5.50	0.000192
263.125	1/8	250	1.75	0.00251
263.250	1/4	250	1.2	0.0165
263.375	3/8	250	0.730	0.0444
263.500	1/2	250	0.510	0.1125
263.750	3/4	250	0.300	0.0411
263.001	1	250	0.210	0.087
263.01.5	1 1/2	250	0.0560	0.398
263.002	2	250	0.0420	0.74
263.02.5	2 1/2	250	0.0335	1.197
263.003	3	250	0.0280	1.77
263.03.5	3 1/2	250	0.0238	2.33
263.004	4	250	0.0210	3.08
263.005	5	250	0.0180	5.55



SUBMINIATURE

MICRO™ FUSE Very Fast-Acting Type



Developed originally for the U.S. Space Program, MICRO fuse provides reliability in an extra compact design. The MICRO fuse is available in plug in or radial lead styles and a complete range of ampere ratings from 1/500 to 5 amperes to suit a wide variety of design needs.

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
100%	1/500-5	4 hours, Minimum
200%	1/500-3/10	5 seconds, Maximum
	4/10-5	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 RATING:

10,000 amperes at 125 VAC/VDC.

FUSES TO MIL SPEC: 273 Series is available in Military QPL type (FM02). To order, change 273 to 274.

Operating Temperature:

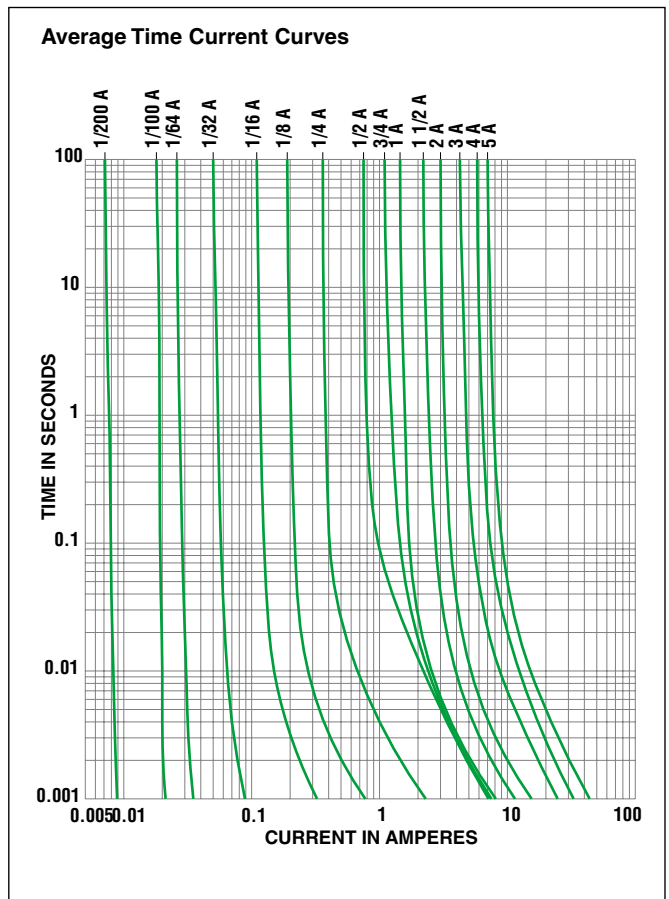
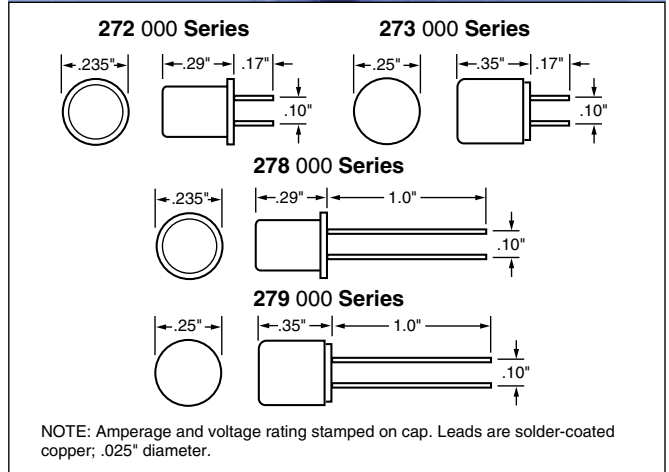
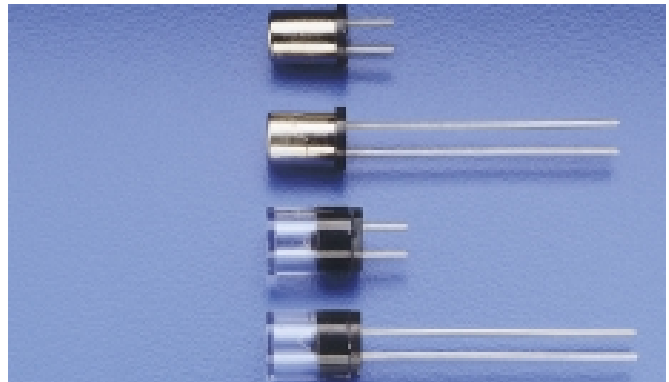
273 and 279: -55°C to 85°C.

272 and 278: -55°C to 125°C

PATENTED

ORDERING INFORMATION:

Plug-In		Radial Lead		Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I ² t A ² Sec.
Catalog Number	Catalog Number	Catalog Number	Catalog Number				
272.002	273.002	278.002	279.002	1/500	125	2200	0.0000000845
272.005	273.005	278.005	279.005	1/200	125	280	0.0000000810
272.010	273.010	278.010	279.010	1/100	125	80.0	0.000000462
272.015	273.015	278.015	279.015	1/64	125	44.0	0.00000123
272.031	273.031	278.031	279.031	1/32	125	16.0	0.00000810
272.050	273.050	278.050	279.050	1/20	125	3.20	0.0000666
272.062	273.062	278.062	279.062	1/16	125	2.32	0.000115
272.100	273.100	278.100	279.100	1/10	125	1.25	0.000385
272.125	273.125	278.125	279.125	1/8	125	1.0	0.000691
272.200	273.200	278.200	279.200	2/10	125	2.30	0.00409
272.250	273.250	278.250	279.250	1/4	125	1.75	0.00640
272.300	273.300	278.300	279.300	3/10	125	1.25	0.00945
272.400	273.400	278.400	279.400	4/10	125	0.227	0.0251
272.500	273.500	278.500	279.500	1/2	125	0.167	0.0716
272.600	273.600	278.600	279.600	6/10	125	0.430	0.0411
272.700	273.700	278.700	279.700	7/10	125	0.324	0.0710
272.750	273.750	278.750	279.750	3/4	125	0.293	0.0900
272.800	273.800	278.800	279.800	8/10	125	0.271	0.113
272.001	273.001	278.001	279.001	1	125	0.0880	0.0648
272.01.5	273.01.5	278.01.5	279.01.5	1 1/2	125	0.0578	0.160
272.002	273.002	278.002	279.002	2	125	0.0425	0.300
272.003	273.003	278.003	279.003	3	125	0.0275	0.759
272.004	273.004	278.004	279.004	4	125	0.0202	1.38
272.005	273.005	278.005	279.005	5	125	0.0156	2.21



HIGH-RELIABILITY SUBMINIATURE

PICO® Fuse Very Fast-Acting Type Fuse



ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
100%	1/16-15	4 hours, Minimum
	1/16-7	1 second, Maximum
200%	10	3 seconds, Maximum
	15	10 seconds, Maximum

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

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

FUSES TO MIL SPEC: 265 Series (except 1/16 ampere rating) is available in Military QPL Type (FM08A), conforming to MIL-PRF-23419/8. To order, change 265 to 267.

INTERRUPTING RATINGS:

300 amperes at rated voltage VDC
50 amperes at rated voltage VAC

ENVIRONMENTAL SPECIFICATIONS:

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

Shock: MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds).

Vibration: MIL-STD-202, Method 201 (10-55 Hz); MIL-STD-202, Method 204, Test Condition C (55-2000 Hz at 10 G's Peak).

Salt Spray: MIL-STD-202, Method 101, Test Condition B.

Seal Test: MIL-STD-202, Method 112, Test Condition A.

Insulation Resistance (After Opening): MIL-STD-202, Method 302, Test Condition A (1/2 Megohm minimum).

Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65°C to 125°C).

Moisture Resistance: MIL-STD-202, Method 106.

PHYSICAL SPECIFICATIONS:

Materials: Gold-Plated Copper Leads per MIL-G-45204, Type II

Weight: .32 Grams

Solderability: MIL-STD-202, Method 208.

Lead Pull Force: MIL-STD-202, Method 211, Test Condition A (will withstand a 5 lb. axial pull test).

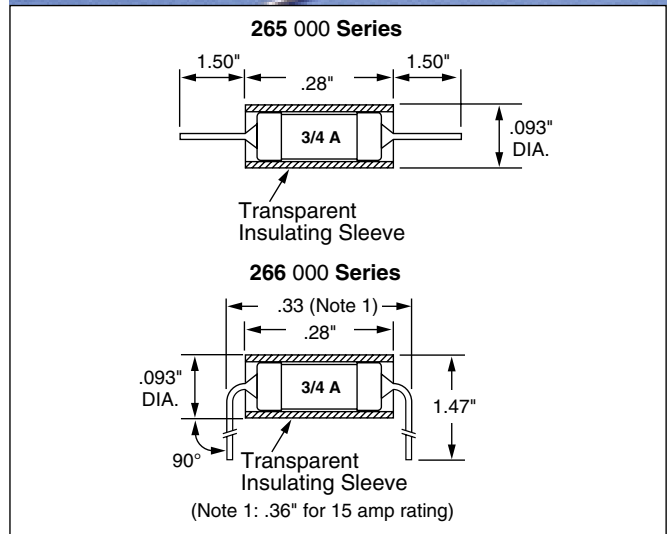
AQL (Electrical Characteristics): Certified to 1% AQL.

Sampling: Per MIL-STD-105, Inspection Level II.

Traceability and Identification Records: Controlled by lot number and retained on file for a minimum of three years. Copies of Lot Certification Test data available when requested with order.

OPTIONS: Special screening tests, burn-in, etc. can be supplied on special order to meet specific requirements. For information on higher current ratings, contact Littelfuse.

PATENTED



ORDERING INFORMATION:

Axial Lead Catalog Number	Radial Lead Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms
265.062	266.062	1/16	125	7.0
265.125	266.125	1/8	125	2.1
265.250	266.250	1/4	125	0.71
265.375	266.375	3/8	125	0.42
265.500	266.500	1/2	125	0.28
265.750	266.750	3/4	125	0.17
265.001	266.001	1	125	0.125
265.01.5	266.01.5	1 1/2	125	0.08
265.002	266.002	2	125	0.055
265.02.5	266.02.5	2 1/2	125	0.042
265.003	266.003	3	125	0.03515
265.004	266.004	4	125	0.023
265.005	266.005	5	125	0.014
265.007	266.007	7	125	0.01
265.010	266.010	10	125	0.00645
265.015	266.015	15	32	0.004

Please contact our office for Average Time Current Curve.

HIGH-RELIABILITY SUBMINIATURE

MICRO™ FUSE Very Fast-Acting Type



ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Ampere Rating	Opening Time
100%	1/500–5	4 hours, Minimum
200%	1/500–3/10	5 seconds, Maximum
	4/10–5	2 seconds, Maximum

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

FUSES TO MIL SPEC: 262 Series is available in Military QPL Type (FM07A), conforming to MIL-PRF-23419/7. To order, change 262 to 269.

INTERRUPTING RATING:
10,000 amperes at 125 VAC/VDC

ENVIRONMENTAL SPECIFICATIONS:
Operating Temperature: -55°C to 125°C.
Shock: (1/500): MIL-STD-202, Method 213, Test Condition A (50 G's peak for 11 milliseconds).
(1/200–5): MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds).

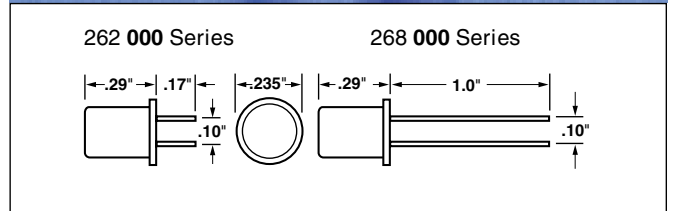
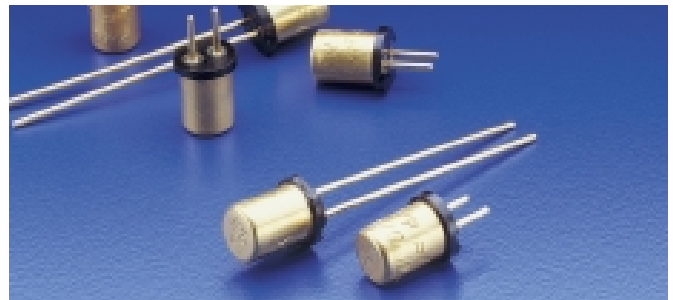
Vibration: MIL-STD-202, Method 201 (10–55 Hz);
MIL-STD-202, Method 204, Test Condition C (55–2000 Hz at 10 G's Peak).

Salt Spray: MIL-STD-202, Method 101, Test Condition B.
Seal Test: MIL-STD-202, Method 112, Test Condition A
Insulation Resistance (After Opening): MIL-STD-202, Method 302, Test Condition A (1/2 Megohm minimum).
Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65°C to 125°C).
Moisture Resistance: MIL-STD-202, Method 106.

PHYSICAL SPECIFICATIONS:
Materials: **Gold-Plated Copper per MIL-G-45204, Type II (Fuse cap is also Gold-Plated).**
Weight: 262 and 269 Series .36 Grams;
268 Series .48 Grams.
Lead Pull Force: MIL-STD-202, Method 211, Test Condition A (will withstand a 5 lb. axial pull test).
AQL (Electrical Characteristics): **Certified to 1% AQL.**
Sampling: **Per MIL-STD-105, Inspection Level II.**
Traceability and Identification Records: **Controlled by lot number and retained on file for a minimum of three years. Copies of Lot Certification Test data available when requested with order.**

OPTIONS: **Special screening tests, burn-in, etc. can be supplied on special order to meet specific requirements.**

PATENTED



ORDERING INFORMATION:

Plug-In Catalog Number	Radial Lead Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms
262.002	268.002	1/500	125	2000
262.005	268.005	1/200	125	280
262.010	268.010	1/100	125	94.0
262.015	268.015	1/64	125	44.0
262.031	268.031	1/32	125	16.45
262.050	268.050	1/20	125	3.20
262.062	268.062	1/16	125	2.25
262.100	268.100	1/10	125	1.17
262.125	268.125	1/8	125	1.0
262.200	268.200	2/10	125	2.30
262.250	268.250	1/4	125	1.75
262.300	268.300	3/10	125	1.25
262.400	268.400	4/10	125	0.227
262.500	268.500	1/2	125	0.167
262.600	268.600	6/10	125	0.140
262.700	268.700	7/10	125	0.114
262.750	268.750	3/4	125	0.104
262.800	268.800	8/10	125	0.094
262 001	268 001	1	125	0.100
262 01.5	268 01.5	1½	125	0.063
262 002	268 002	2	125	0.046
262 003	268 003	3	125	0.034
262 004	268 004	4	125	0.019
262 005	268 005	5	125	0.018

Please contact our office for Average Time Current Curve.