262/268/269 Series, MICRO[™] Very Fast-Acting Fuse (High-Reliability)



ittelfuse

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Agency Approvals

Electrical Characteristics

Agency	Agency File Number	Ampere Range		
91	E10480	2mA - 5A		
	E 10460	2111A - 5A		
SF. LR 29862		2mA - 5A		
QPL	FM07A	2mA - 5A		

Description

The 262/268/269 Series are high-reliability micro fuses, with a 125V rating, very fast-acting type with high breaking capacity. This series is listed under the Department of Defense Quality Product List.

Features

- Military grade available
- Available in plug-in and
- Available from very low ampere of 2mA to 5A
- radial leaded

Applications

Protection of electrical, electronic, and communication equipment having printed circuit boards (PCBs) usable in direct current (DC) and alternating current (AC) (up to 400 hertz (Hz)) circuits capable of withstanding and functioning in extreme conditions found in Spacecraft or Military applications as described in MIL-PRF-23419.

Electrical Characteristics

% of Ampere Rating	Ampere Rating	OpeningTime	
100%	1/500–15	4 Hours, Min.	
200%	1/500–3/10	5 Seconds, Max.	
200%	4/10-5	2 Seconds, Max.	

Ampere	pere Max Nominal C					als	
Rating (A)	Amp Code	Voltage Rating (V)	Interrupting Rating	Interrupting		()	QPL
.002	.002	125		2000	Х	Х	Х
.005	.005	125		280	Х	X	X
.010	.010	125		94.0	Х	X	Х
.015	.015	125		44.0	Х	X	X
.031	.031	125		16.45	X	X	X
.050	.050	125		3.20	Х	X	X
.062	.062	125		2.25	Х	X	X
.100	.100	125		1.17	Х	X	X
.125	.125	125		1.0	Х	X	X
.200	.200	125		2.30	Х	Х	Х
.250	.250	125		1.75	X	X	X
.300	.300	125	10,000 amperes at	1.25	X	X	X
.400	.400	125	125 VAC/VDC	0.227	Х	X	X
.500	.500	125		0.167	Х	Х	X
.600	.600	125		0.140	X	X	X
.700	.700	125		0.114	Х	Х	X
.750	.750	125		0.104	Х	X	X
.800	.800	125	-	0.094	X	X	X
1.00	001.	125		0.100	Х	X	X
01.5	01.5	125		0.063	Х	X	Х
2.00	002.	125		0.046	Х	X	X
3.00	003.	125		0.034	Х	X	Х
4.00	004.	125		0.019	Х	X	X
5.00	005.	125		0.018	Х	X	Х

Please contact Littelfuse for Average Time Current Curve.

Specifications are subject to change without notice. Please refer to www.littelfuse.com/series/262.html. /268.html or /269.html for current information.

Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation		
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)		
Temperature Minimum:	100° C		
Temperature Maximum:	150° C		
Preheat Time:	60-180 seconds		
Solder Pot Temperature:	260° C Maximum		
Solder Dwell Time:	2-5 seconds		

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5°C Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.



Please contact Littelfuse for average time current curve.

262/268/269 Series



Product Characteristics

Materials	Gold-Plated Copper Leads, 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		
Product Marking	262 / 268 Series: Brand logo, current and voltage ratings 269 Series: Brand logo, current and voltage ratings and agency approval mark		

Operating Temperature	–55°C to +125°C	
Shock	(1/500): MILSTD-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	MILSTD-202, Method 106	
Fuses to MIL SPEC	262 Series is available in FM07A on QPL for MIL-PRF-23419/7. To order, change 262 to 269	

Dimensions



Part Numbering System



Packaging Code -

V = 5

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
Bulk	N/A	5	V