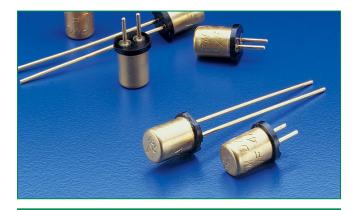


262/268/269 Series, MICRO™ Very Fast-Acting Fuse (High-Reliability)





Agency Approvals

Agency	Agency File Number	Ampere Range	Series	
71 °	E10480	0.002A - 5A	262 & 268	
(29862	0.002A - 5A	262 & 268	
QPL	FM07A	0.002A - 5A	269	

Description

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

Features

- Military grade available
- Available from very low ampere of 0.002A to 5A
- Available in plug-in and 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%	0.002 – 15	4 Hours, Min.
2000/	0.002 – 0.3	5 Seconds, Max.
200%	0.4 - 5	2 Seconds, Max.

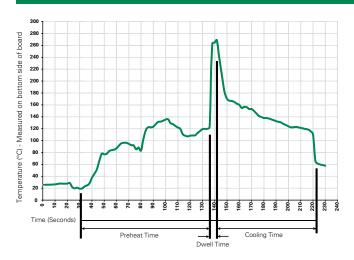
Electrical Characteristics

Ampere		Max				gency Approv	⁄als
Rating (A)	Amp Code	Voltage Rating (V)	Interrupting Rating			(QPL
.002	.002	125		2000	X	X	X
.005	.005	125		280	X	X	X
.010	.010	125		94.0	X	X	X
.015	.015	125		44.0	X	X	X
.031	.031	125		16.45	X	X	X
.050	.050	125		3.20	X	X	X
.062	.062	125		2.25	X	X	X
.100	.100	125		1.17	X	X	X
.125	.125	125		1.0	Х	X	X
.200	.200	125		2.30	X	X	X
.250	.250	125		1.75	Х	X	X
.300	.300	125	10 000 A @ 12 E V A C A / D C	1.25	X	X	X
.400	.400	125	10,000A@125VAC/VDC	0.227	X	X	X
.500	.500	125		0.167	X	X	X
.600	.600	125		0.140	X	X	X
.700	.700	125		0.114	Х	X	X
.750	.750	125		0.104	X	X	X
.800	.800	125		0.094	Х	X	X
1.00	001.	125		0.100	Х	X	X
01.5	01.5	125		0.063	Х	X	X
2.00	002.	125		0.046	Х	X	X
3.00	003.	125		0.034	Х	X	X
4.00	004.	125		0.019	X	Х	X
5.00	005.	125		0.018	Х	X	X

Please contact Littelfuse for Average Time Current Curve.



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 DwellTime:	2-5 seconds	

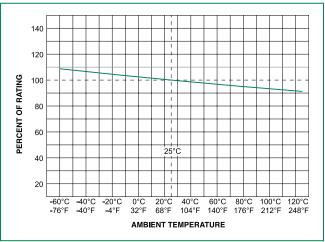
Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5°C

Heating Time: 5 seconds max.

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

Temperature Re-rating Curve



Notes:

2. Please contact Littelfuse for average time current curve.

^{1.} Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.



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): 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		
Fuses to MIL SPEC	262 Series is available as FM07A on QPL for MILPRF-23419/7. To order, change 262 to 269		

Dimensions

262 000 Series 268 000 Series 7.37 (.235")(1.0")2.54 (.10")

Packaging

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

Part Numbering System

0262 xxxx V 0262 - Standard Series with short leads. 0268 - Standard Series with long leads. 0269 - Military Grade with short leads. Amp. Code -Refer to Amp Code column of Electrical Characteristics Table Packaging Code -

V = (All Series) 5 Quantity bulk pack.

Additional Information



Datasheet 262 Series



Datasheet 268 Series



Datasheet 269 Series



Resources 262 Series



Resources 268 Series



Resources 269 Series



Samples 262 Series



Samples 268 Series



Samples 269 Series

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