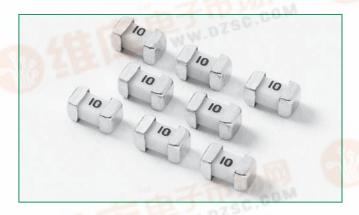
Surface Mount Fuses



旦间 04303.13DK 供应向

ROHS HF 458 Series Fuse





Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
c FL ®us	E10480	1A-10A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time	
100%	4 hours, Minimum	
250%	5 seconds, Maximum	

Description

The 458 Series Nano^{2®} Fuse is an ultra-small, square surface mount fuse designed to support a variety of space constrained overcurrent protection applications. Offering a 1206 size footprint, it is the smallest wire-in-air type surface mount fuse offered by Littelfuse.

Features

- Surface Mount Fuse
- Fully compatible with lead free soldering profiles
- RoHS Compliant
- Halogen Free
- Available in ratings of 1 to 10 Amperes

Applications

- Notebook PC
- LCD backlight inverter
- LCD Panel
- DC/DC converter
- Battery Pack
- Car Navigation System
- Network Equipment
- Telecom Equipment
- Electronic Signage
- Portable Consumer Electronics

Electrical Specifications by Item

Electrical Specifications by Item									
Ampere Rating (A)	Amp Code	Marking	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A²sec)	Agency Approvals	ZSC.COM	
1.0	001.	1		2. Feed	0.180	.168	Х		
1.25	1.25	1.25	1.75	Dry	0.125	.313	×		
1.5	01.5	1.5	W.BZSC.COM	0.099	.548	Х			
1.6	01.6	1.6		M.D.		0.092	.562	Х	
2	002.	2			0.0695	.952	X		
2.5	02.5	2.5			0.06	1.408	×		
3	003.	3			0.049	2.289	X		
3.15	3.15	3.15	63V	50A @63Vdc	0.045	2.457	X		
3.5	03.5	3.5			0.0375	4.00	×		
4	004.	4			0.032	4.832	X		
5	005.	5	F-77-15		2,500	0.027	7.938	×	
6.3	06.3	6.3		COM	0.0192	14.37	×		
7	007.	7		W.DZSC.	3 - 12 - 12 - 12	0.0175	20.48	×	
8	008.	8	West Transport		0.0058	9.00	X		
10.0	010.	10			0.00465	15.0	Х		

Notes:

df.dzsc.com

- 1. I²t values stated for 8 msec opening time
- 2. Cold resistance measured at less than 10% of rated current at 25°C.
- 3. Agency Approval Table Key: X=Approved or Certified, P=Pending and Blank=Not Approved
- $4. \ Have \ special \ electrical \ characteristic \ needs? \ Contact \ Little fuse \ to \ learn \ more \ about \ application \ specific \ options.$

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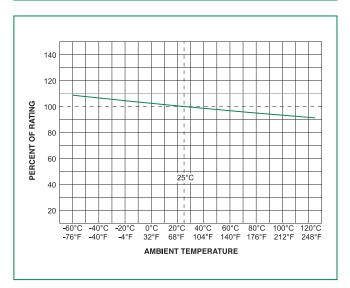
Specifications are subject to change without notice.
Please refer to www.littelfuse.com/series/458.html for current information.





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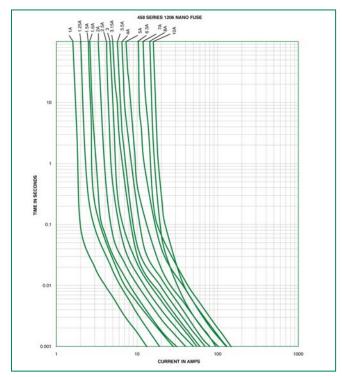
Temperature Rerating Curve



Note

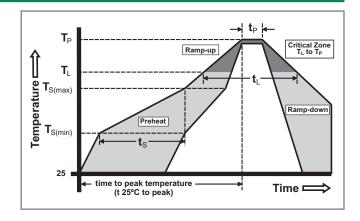
1. Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters

Reflow Co	ndition	Pb – Free assembly	
	-Temperature Min (T _{s(min)})	150°C	
Pre Heat	-Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 - 120 secs	
Average ra	amp up rate (LiquidusTemp k	5°C/second max	
T _{S(max)} to T _L	- Ramp-up Rate	5°C/second max	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
	-Temperature (t _L)	60 - 90 seconds	
PeakTemperature (T _p)		250 ^{+0/-5} °C	
Time within 5°C of actual peak Temperature (t _p)		20 - 40 seconds	
Ramp-down Rate		5°C/second max	
Time 25°C to peakTemperature (T _P)		8 minutes Max.	
Do not exceed		260°C	



Surface Mount Fuses



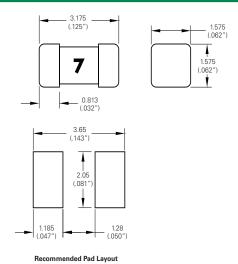
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Product Characteristics

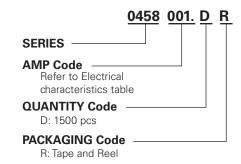
Materials	Body: Ceramic Cap: Gold Plated Brass		
Product Marking	Body: Current Rating (Refer to Electrical Characteristic table)		
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms, Minimum)		
Solderability	MIL-STD-202, Method 208		
Resistance to Soldering Heat	MIL-STD-202, Method 210, Test Condition B (10 sec at 260°C)		
Moisture Sensitivity Level	Level 1		

Operating Temperature	-55°C to 125°C with proper derating		
Thermal Shock	MIL-STD-202F, Method 107G, Test Condition B (5 cycles -65°C to +125°C)		
Vibration	MIL-STD-202F, Method 201A (10-55 Hz)		
Moisture Resistance	MIL-STD-202, Method 106, High Humidity (90-98%RH), Heat (65°C)		
Salt Spray	MIL-STD-202F, Method 101D, Test Condition B		
Shock	MILSTD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)		

Dimensions



Part Numbering System



Example: 1.5 amp product is 0458 <u>01.5</u> D R (1 amp product shown above).

Packaging

Packaging Option	Packaging Specification	Quantity & Packaging Code	
24mm Tape and Reel	EIA-RS 481-1	1500	DR



