### 458 Series Fuse



Agency A	Approvais	
AGENCY	AGENCY FILE NUMBER	AMPERE RANGE
c <b>PL</b> <sup>®</sup> us	E10480	1A-10A

### **Electrical Characteristics for Series**

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

### **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
			nating (v)		(Onnis)	FT (A 300)	c 🕰 us
1.0	001.	1			0.180	.168	х
1.25	1.25	1.25			0.125	.313	x
1.5	01.5	1.5			0.099	.548	x
1.6	01.6	1.6			0.092	.562	х
2	002.	2		50A @ 75VDC 50A @ 48VAC	0.0695	.952	x
2.5	02.5	2.5			0.06	1.408	x
3	003.	3	75V		0.049	2.289	x
3.15	3.15	3.15			0.045	2.457	x
3.5	03.5	3.5			0.0375	4.00	x
4	004.	4			0.032	4.832	x
5	005.	5		50A @ 75VDC 50A @ 32VAC	0.027	7.938	×
6.3	06.3	6.3		00, ( 0 02 0, (0	0.0192	14.37	x
7	007.	7			0.0175	20.48	Х
8	008.	8	63V	50A @ 63VDC 50A @ 32VAC	0.0058	13.448	x
10.0	010.	10		00,100021/10	0.00465	15.0	х

Notes:

- 1. I<sup>2</sup>t 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 Littelfuse to learn more about application specific options.

### Description

The 458 Series Nano<sup>2®</sup> 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 and Halogen-Free

RoHS HF

c Rus

• Available in ratings of 1 to 10 Amperes

• Car Navigation System

Network EquipmentTelecom Equipment

• Electronic Signage

### Applications

- Notebook PC
- LCD backlight inverter
- LCD Panel
- DC/DC converter
- Battery Pack

## Additional Information



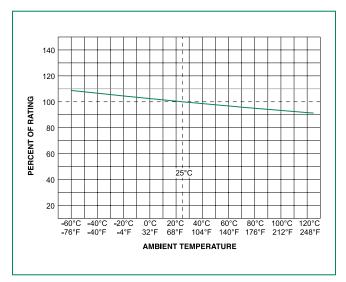




### Samples



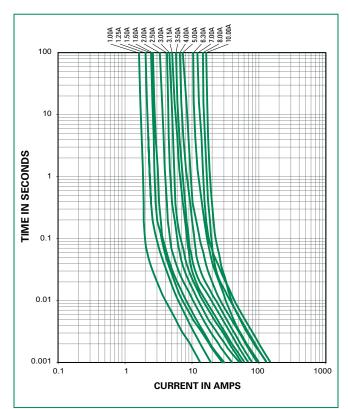
### **Temperature Re-rating Curve**



Note:

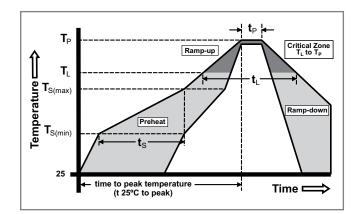
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

#### **Average Time Current Curves**



### **Soldering Parameters**

Reflow Co	ndition	Pb – Free assembly
	-Temperature Min (T <sub>s(min)</sub> )	150°C
Pre Heat	-Temperature Max (T <sub>s(max)</sub> )	200°C
	-Time (Min to Max) (t <sub>s</sub> )	60 – 120 secs
Average ra (T <sub>L</sub> ) to pea	amp up rate (LiquidusTemp k	5°C/second max
T <sub>S(max)</sub> to T <sub>I</sub>	- Ramp-up Rate	5°C/second max
Reflow	-Temperature (T <sub>L</sub> ) (Liquidus)	217°C
Reliow	-Temperature (t <sub>L</sub> )	60 – 90 seconds
PeakTemp	erature (T <sub>P</sub> )	260+0/-5 °C
Time with Temperatu	in 5°C of actual peak ıre (t <sub>p</sub> )	20 – 40 seconds
Ramp-dov	vn Rate	5°C/second max
Time 25°C	to peakTemperature (T <sub>P</sub> )	8 minutes Max.
Do not exc	ceed	260°C



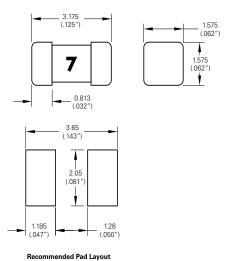


### **Product Characteristics**

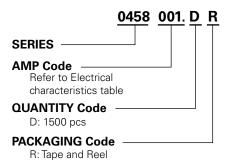
Materials	Body: Ceramic Cap: Gold Plated Brass
Product Marking	Body: Current Rating (Refer to Electrical Characteristic table)
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms, Minimum)
Solderability	MIL-STD-202, Method 208
Resistance to Soldering Heat	MIL-STD-202, Method 210, Test Condition B (10 sec at 260°C)
Moisture Sensitivity Level	Level 1 J-STD-020

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

### Dimensions



# Part Numbering System



**Example:** 1.5 amp product is 0458 D R (1 amp product shown above).

Packaging					
	Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	
	8mm Tape and Reel	EIA-RS 481-1	1500	DR	



单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)