Cartridge and Axial Lead Fuses

5×20mm > Medium Acting > 201P Series



RoHS 🗭 c 74 US

201P Series, 5×20mm, Medium–Acting Fuse



Agency Approvals				
Agency	Agency File Number	Ampere Range		
c FN [®] us	E67006	0.050A-1.25A		

Additional Information ¥ Datasheet Resources

For recommended fuse accessories for this product series, see 'Recommended Accessories' section.

Samples

Accessories

Electrical Characteristic Specifications by Item

Description

The 201P Series is a 5×20mm Medium-Acting, Time-lag, Glass Body Cartridge Fuse.

Features

- Visual fault indication
- Direct solderable or plug-in versions
- Worldwide availability
- RoHS compliant and Lead-free

Applications

Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

Electrical Characteristics for Series

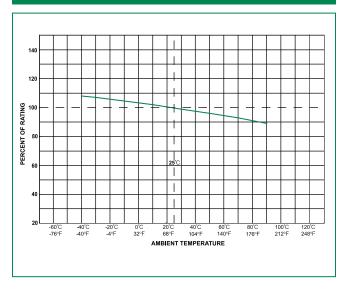
% of Ampere Rating	OpeningTime
150	1 Hour Minimum
210	600 s Maximum
400	40 ms Minimum 2 s Maximum
1000	5 ms Minimum 90 ms Maximum

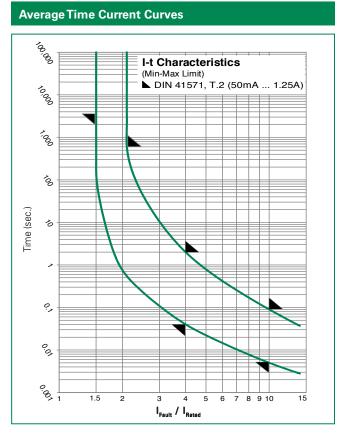
Amp Code	Amp Rating	Voltage Rating	Interrupting Rating	Nominal Resistance Cold Ohms (mohms)	Nominal Melting Integral 10 x I _N (A²s)	Voltage Drop 1.0 x I _N max. (mV)	Power Dissipation 1.5 x I _N max. (W)	Agency Approvals
0050	0.050	250V		9200	0.00900	640	0.10000	Х
0063	0.063	250V		7400	0.01100	600	0.10000	х
0080	0.080	250V		5330	0.01700	540	0.20000	х
0100	0.100	250V		3550	0.03100	500	0.20000	х
0125	0.125	250V	-	2650	0.05700	440	0.20000	х
0160	0.160	250V		1780	0.08500	400	0.20000	х
0200	0.200	250V	-	1250	0.12000	340	0.30000	х
0250	0.250	250V	80A @ 250VAC	870	0.13000	320	0.30000	х
0315	0.315	250V		590	0.16000	300	0.30000	х
0400	0.400	250V		435	0.28000	230	0.40000	х
0500	0.500	250V		160	0.35000	210	0.40000	х
0630	0.630	250V		130	0.80900	190	0.50000	х
0800	0.800	250V		85	1.10000	170	0.60000	х
1100	1.000	250V		70	2.00000	160	0.70000	х
1125	1.250	250V		50	5.12000	160	0.80000	Х

Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

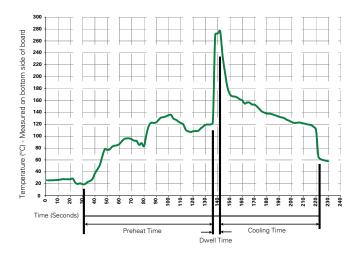


Temperature Re-rating Curve





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 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.

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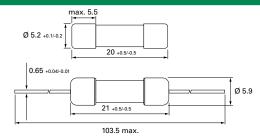


Product Characteristics

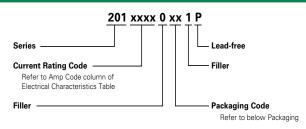
Materials	Body: Glass End Caps: Nickel–plated brass Optional Holders: Nickel-plated caps Tin-plated wires
Product Marking	Cap1: Brand mark, current and voltage ratings Cap2: Series and agency approval marks
Solderability	MIL-STD-202, Method 208
Soldering Heat Resistance	260°C, 10 sec. (IEC 60068-2-20)

Operating Temperature	-25°C to +70°C		
Climatic Category	-25°C/+70°C/21 days (IEC 60068-1-3)		
Stock Conditions	-10°C to +60°C RH, ≤ 75% yearly average, without dew, maximum value for 30 days-95%		
Vibration Resistance	24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10 g acceleration		

Dimensions



Part Numbering System



Packaging

Packaging Code	FuseType	Packing Option	Quantity
00	Cartridge Type Fuse	Bulk	1000
02	Cartridge Type Fuse	Bulk	100
30	Cartridge Type Fuse	Bulk with Four Color Code	1000
43	Axial Lead Fuse	Tape and Reel	1250
53	Axial Lead Fuse	Tape and Reel with Four Color Code	1250

Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage	
	<u>345_ISF</u>	Panel Mount Shock-Safe Fuseholder		10	
Holder <u>345</u> <u>830</u>	<u>345</u>	Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options		20	
	<u>830</u>	PC Mount Shock-Safe Miniature Fuseholder		16	
	<u>520</u>	Metric OMNI-BLOK® Fuse Block		10	
	<u>646</u>	PC Mount Miniature Fuse Block	250	6.3	
	<u>658</u>	Surface Mount Miniature Fuse Block		10	
Clip	<u>520_W</u>	PC Mount Miniature Fuse Clip		6.3	
	<u>111</u>	PC Board Mount Fuse Clip		10	
	<u>445</u>	PC Board Mount Fuse Clip		10	

Notes: 1. Do not use in applications above rating.

2. Please refer to fuseholder data sheet for specific re-rating information.

3. Please contact factory for applications greater than the max voltage and amperage shown.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littlefuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at: www.littelfuse.com/disclaimer-electronics.