

# 0328021.MXP Datasheet



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DiGi Electronics Part Number	0328021.MXP-DG
Manufacturer	<a href="#">Littelfuse Inc.</a>
Manufacturer Product Number	0328021.MXP
Description	FUSE CERM 21A 300VAC 100VDC 3AB
Detailed Description	21 A 300 V AC 100 V DC Fuse Cartridge, Ceramic Requires Holder 3AB, 3AG, 1/4" x 1-1/4"

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## Purchase and inquiry

Manufacturer Product Number:

0328021.MXP

Series:

328

Mounting Type:

Requires Holder

Current Rating (Amps):

21 A

Voltage Rating - DC:

100 V

Package / Case:

3AB, 3AG, 1/4" x 1-1/4"

Melting I<sup>2</sup>t:

4800

Operating Temperature:

-55°C ~ 125°C

Size / Dimension:

0.250" Dia x 1.250" L (6.35mm x 31.75mm)

Manufacturer:

Littelfuse Inc.

Product Status:

Active

Fuse Type:

Cartridge, Ceramic

Voltage Rating - AC:

300 V

Response Time:

Slow Blow

Breaking Capacity @ Rated Voltage:

200A

Approval Agency:

UR, TUV

Color:

-

DC Cold Resistance:

0.0042 Ohms

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.10.0040

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

## 328 Series, Lead-Free 3AB, High Surge Withstand Fuse





### Description

The 328 Series is a 300VAC rated, 10kA surge withstand, 6.3×32mm ceramic fuse, designed in accordance to UL 248-1 and UL 248-14 Standards, provided in cartridge and axial-lead packages.

### Features

- High surge withstand capability
  - 20 hits of 10kA 8/20μs surge
  - Meets ANSI/IEEE C62.41.2, Category C-High
  - Meets US Dept of Energy (DOE) MSSLC/CBEA street lighting and parking lot lighting, elevated level
- Small form factor (6.3×32mm) with cartridge and axial-lead package options
- Breaking capacity: 200A@300VAC, 200A@100VDC
- Lead-free, RoHS compliant and halogen-free
- Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- Operating temperature: -55°C to 125°C

### Agency Approvals

Agency	Agency File Number	Ampere Range
	T 50260582 01*	21A
	E10480	21A

\* - Approved to UL 248-1 and UL 248-14

### Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 hours, minimum
200%	120 sec., maximum

### Additional Information



Datasheet



Resources



Samples





Accessories

For recommended fuse accessories for this product series, see '[Recommended Accessories](#)' section.

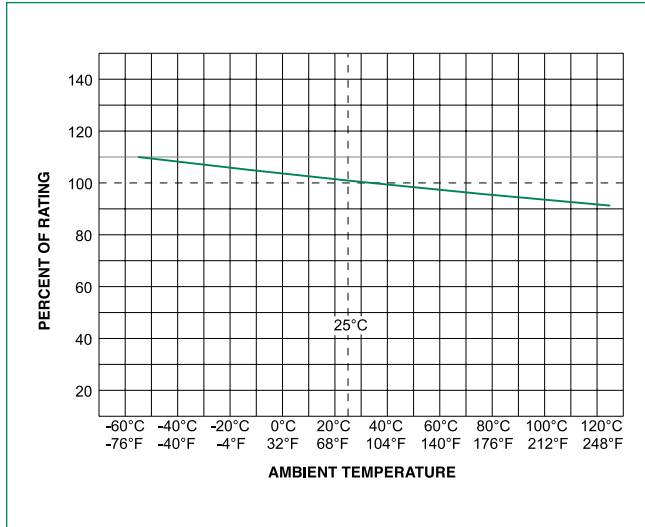
### Applications

- Commercial and outdoor LED luminaries
- Outdoor electronics and electrical equipment.
- Surge protection for telecom application.

### Electrical Characteristic by Item

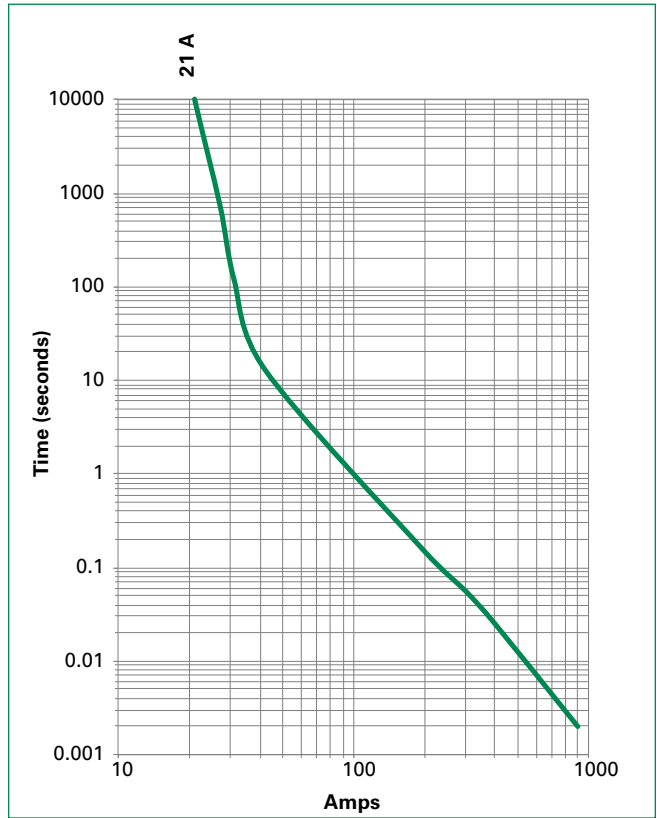
Amp Rating (A)	Voltage Rating (VAC)	Interrupting Rating	Surge Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)	Agency Approvals	
							
21A	300	200A@300VAC 200A@100VDC	1.2/50 - 8/20μs, 20kV/10kA 20 hits	0.0042	4,800	X	X

### Temperature Re-rating Curve

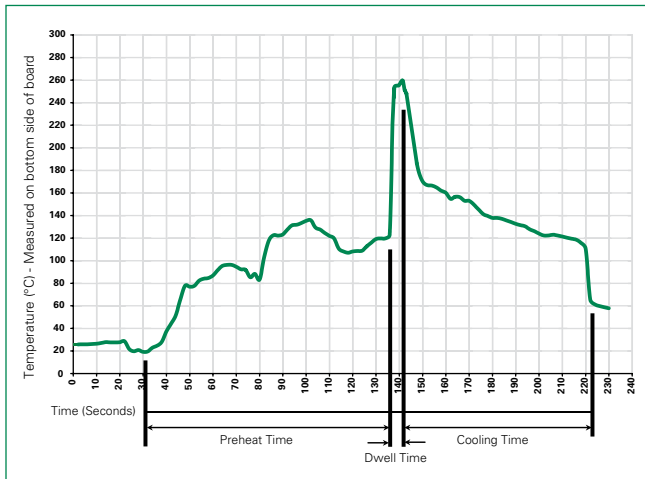


**Note:**  
Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

### Average Time Current Curves



### 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.

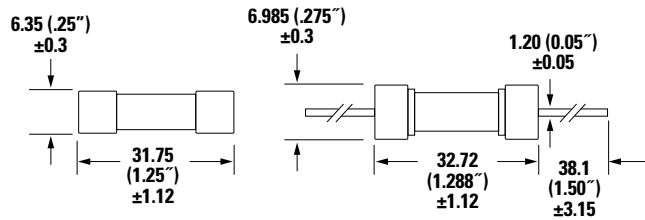
### Product Characteristics

<b>Materials</b>	Body: Ceramic Cap: Nickel-plated brass Leads: Tin-plated copper
<b>Terminal Strength</b>	MIL-STD-202, Method 211, Test Condition A
<b>Solderability</b>	MIL-STD-202 Method 208
<b>Product Marking</b>	Cap1: Brand logo, current and voltage ratings Cap2: Series and agency approval marks

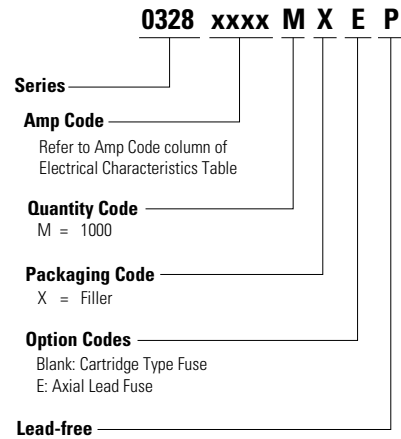
<b>Operating Temperature</b>	-55°C to +125°C
<b>Thermal Shock</b>	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
<b>Vibration</b>	MIL-STD-202, Method 201
<b>Humidity</b>	MIL-STD-202, Method 103, Test Condition A. High RH (95%) and elevated temperature (40°C) for 240 hours.
<b>Salt Spray</b>	MIL-STD-202, Method 101, Test Condition B

### Dimensions

Measurements displayed in millimeters (inches).



### Part Numbering System



### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
<b>328 Series</b>				
Bulk	N/A	1000	MX	N/A

### Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
Block	<a href="#">354</a>	Low Profile OMNI-BLOK® Fuse Block	600	30
	<a href="#">359</a>	High Current Screw Terminal Fuse Block		30
Clip	<a href="#">122</a>	High Current Traditional PC Board Fuse Clip	1000	30

- Notes:**
- Do not use in applications above rating.
  - Please refer to fuseholder data sheet for specific re-rating information.
  - Please contact factory for applications greater than the max voltage and amperage shown.

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