

# 0332004.HXP Datasheet



|                              |   |
|------------------------------|---|
| DiGi Electronics Part Number | 0332004.HXP-DG  |
| Manufacturer                 | <a href="#">Littelfuse Inc.</a>   |
| Manufacturer Product Number  | 0332004.HXP   |
| Description                  | FUSE CERM 4A 250VAC 125VDC 3AB  |
| Detailed Description         | 4 A 250 V AC 125 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:

0332004.HXP

Series:

332

Mounting Type:

Requires Holder

Current Rating (Amps):

4 A

Voltage Rating - DC:

125 V

Package / Case:

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

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

3.36

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:

Obsolete

Fuse Type:

Cartridge, Ceramic

Voltage Rating - AC:

250 V

Response Time:

Fast Blow

Breaking Capacity @ Rated Voltage:

100A

Approval Agency:

CE, cULus, PSE

Color:

-

DC Cold Resistance:

0.0179 Ohms

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8536.10.0040

**322/332 Series Lead-free 3AB, Very Fast-acting Fuse**



**Agency Approvals**

| Agency | Agency File Number                     | Ampere Range  | Series  |
|--------|--|---------------|---------|
|        | E10480                                 | 12A - 30A     | 322     |
|        | E10480                                 | 1A - 10A      | 332     |
|        | NBK080306-JP1021A<br>NBK080306-JP1021B | 1-5A<br>6-10A | 332     |
|        | N/A                                    | 1A - 30A      | 322/332 |

**Description**

The 322 and 332 Series are 3AB Very Fast-Acting fuses for protection of Silicon Controlled Rectifiers and similar solid-state devices.

**Features**

- In accordance with UL Standard 248-14
- Available in cartridge format only
- 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 | Ampere Rating | Opening Time       |
|--------------------|---------------|--------------------|
| 100%               | 1 – 30        | 4 hours, Minimum   |
| 250%               | 1 – 10        | .2 second, Maximum |
|                    | 12 – 30       | 1 second, Maximum. |

**Electrical Characteristic Specifications by Item**

| Amp Code | Ampere Rating (A) | Voltage Rating (V) | Interrupting Rating                      | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Agency Approvals |   |   |   |
|----------|-------------------|--------------------|--|--------------------------------|---|------------------|---|---|---|
|          |                   |                    |  |                                |   |                  |   |   |   |
| 001.     | 1                 | 250                | 100A@250Vac<br>100A@125Vdc<br>200A@72Vdc | 0.0927                         | 0.146   | x                |   | x | x |
| 1.25     | 1.25              | 250                |  | 0.0804                         | 0.204   | x                |   | x | x |
| 002.     | 2                 | 250                |  | 0.0416                         | 0.790   | x                |   | x | x |
| 003.     | 3                 | 250                |  | 0.0245                         | 2.760   | x                |   | x | x |
| 004.     | 4                 | 250                |  | 0.0179                         | 3.360   | x                |   | x | x |
| 005.     | 5                 | 250                |  | 0.0128                         | 6.250   | x                |   | x | x |
| 006.     | 6                 | 250                |  | 0.0117                         | 8.208   | x                |   | x | x |
| 007.     | 7                 | 250                |  | 0.0108                         | 10.58   | x                |   | x | x |
| 008.     | 8                 | 250                |  | 0.0088                         | 16.45   | x                |   | x | x |
| 009.     | 9                 | 250                |  | 0.0077                         | 20.66   | x                |   | x | x |
| 010.     | 10                | 250                | 0.0073                                   | 24.0                           | x   |                  | x | x |   |
| 012.     | 12                | 65                 | 200A@65Vac<br>1000A@65Vdc                | 0.0057                         | 38.0  |                  | x |   | x |
| 015.     | 15                | 65                 |  | 0.0043                         | 59.0  |                  | x |   | x |
| 020.     | 20                | 65                 |  | 0.0034                         | 192.0   |                  | x |   | x |
| 025.*    | 25                | 65                 |  | 0.0029                         | 325.0   |                  | x |   | x |
| 030.*    | 30                | 65                 |  | 0.0023                         | 540.0   |                  | x |   | x |

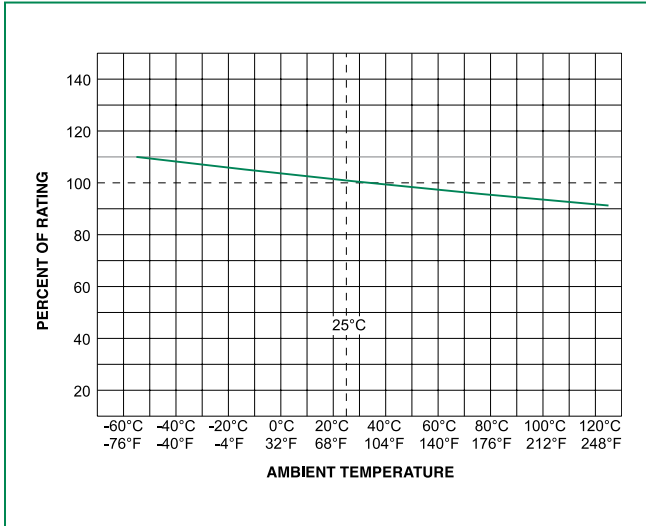
\* Ratings from 1A to 10A are available for 332 series

\* Ratings from 12A to 30A are available for 322 series, these ratings are RoHS compliant version.

# Axial Lead & Cartridge Fuses

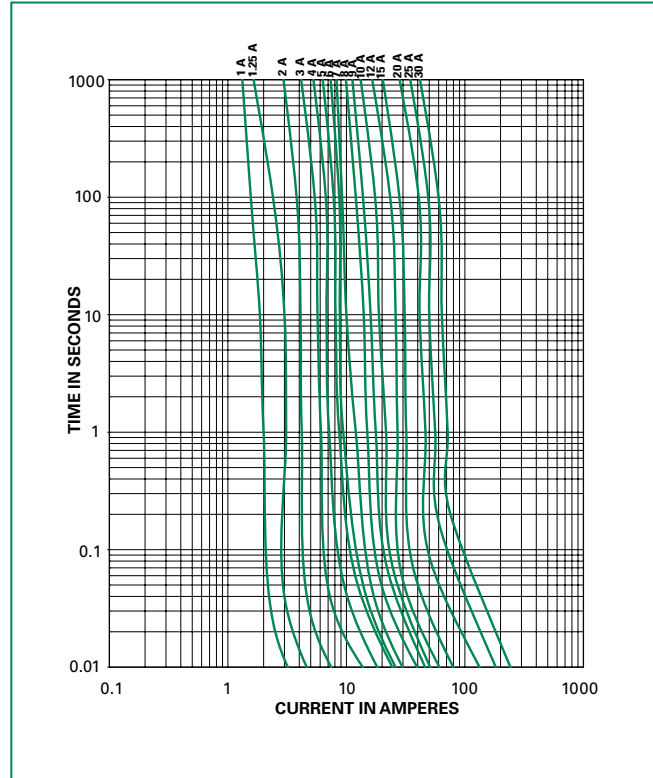
## 3AB > Very Fast-Acting > 322/332 Series

### Temperature Re-rating Curve



Note:  
Rerating depicted in this curve is in addition to the industry practice derating of 25% for continuous operation.

### Average Time Current Curves



### Product Characteristics

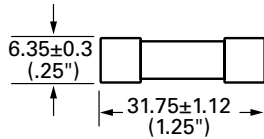
|                          |   |
|--------------------------|---|
| <b>Materials</b>         | Body: Ceramic<br>Cap: Nickel-plated brass   |
| <b>Terminal Strength</b> | MIL-STD-202, Method 211, Test Condition A   |
| <b>Solderability</b>     | MIL-STD-202 Method 208  |
| <b>Product Marking</b>   | Cap1: Brand logo, current and voltage ratings<br>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  |

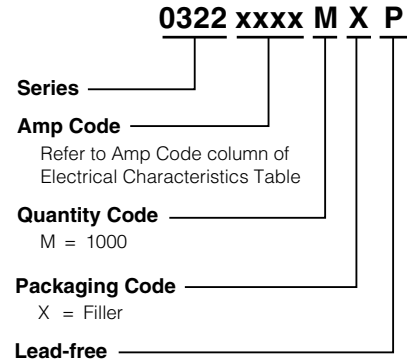
**Dimensions**

Measurements displayed in millimeters (inches)

**322 000P / 332 000P Series**  
 (cartridge)



**Part Numbering System**



**Packaging**

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Reel Size |
|-------------------|-------------------------|----------|---------------------------|-----------|
| <b>322 Series</b> |                         |          |                           |           |
| Bulk              | N/A                     | 1000     | MX                        | N/A       |
| Bulk              | N/A                     | 100      | HX                        | N/A       |
| <b>332 Series</b> |                         |          |                           |           |
| Bulk              | N/A                     | 100      | HX                        | N/A       |
| Bulk              | N/A                     | 1000     | MX                        | N/A       |

**Additional Information**



**Datasheet**  
322 Series



**Resources**  
322 Series



**Samples**  
322 Series



**Datasheet**  
332 Series



**Resources**  
332 Series



**Samples**  
332 Series



**Accessories**  
322 & 332 Series

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

**Recommended Accessories**

| Accessory Type | Series                 | Description   | Max Application Voltage | Max Application Amperage |
|----------------|------------------------|---|-------------------------|--------------------------|
| Holder         | <a href="#">155100</a> | Twist-Lock In-Line Fuseholder   | 32                      | 20                       |
|                | <a href="#">342</a>    | Traditional Panel Mount Fuseholder  | 250                     | 20                       |
|                | <a href="#">346</a>    | Panel Mount Flip-Top Shock-Safe Fuseholder                                | 250                     | 15                       |
|                | <a href="#">345</a>    | Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options | 250                     | 20                       |
| 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                       |
|                | <a href="#">101</a>    | Rivet/Eyelet Type Fuse Clip   | 1000                    | 15                       |

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.

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