

# 0235.250HXP Datasheet

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|                              |   |
|------------------------------|---|
| DiGi Electronics Part Number | 0235.250HXP-DG  |
| Manufacturer                 | <a href="#">Littelfuse Inc.</a>                                     |
| Manufacturer Product Number  | 0235.250HXP   |
| Description                  | FUSE GLASS 250MA 250VAC 5X20MM                                      |
| Detailed Description         | 250 mA 250 V AC DC Fuse Cartridge, Glass Requires Holder 5mm x 20mm |

This model 0235.250HXP is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

0235.250HXP

Series:

235

Mounting Type:

Requires Holder

Current Rating (Amps):

250 mA

Response Time:

Fast Blow

Breaking Capacity @ Rated Voltage:

35A

Approval Agency:

CE, CSA, KC, UL

Color:

-

DC Cold Resistance:

2.25 Ohms

Manufacturer:

Littelfuse Inc.

Product Status:

Active

Fuse Type:

Cartridge, Glass

Voltage Rating - AC:

250 V

Package / Case:

5mm x 20mm

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

0.0166

Operating Temperature:

-55°C ~ 125°C

Size / Dimension:

0.205" Dia x 0.787" L (5.20mm x 20.00mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.10.0020

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

## 235 Series, 5×20 mm, Fast-Acting Fuse



### Description

5×20mm fast-acting glass body cartridge fuse designed to UL specification.






### Features

- Designed to UL/CSA/ ANCE 248 Standard
- Available in cartridge and axial lead format
- RoHS compliant and lead-free

### Applications

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

### Agency Approvals

| Agency  | Agency File Number  | Ampere Range  |   |             |
|---|---|---|---|-------------|
|  | Cartridge:<br>NBK030609-JP1021A<br>NBK190609-JP1021A<br>NBK030609-JP1021B           | 1A - 3.5A<br>4A -5A<br>6A -7A   |   |             |
|   | Leaded:<br>NBK030609-JP1021C<br>NBK190609-JP1021B<br>NBK030609-JP1021D              | 1A - 3.5A<br>4A -5A<br>6A -7A   |   |             |
|   |   | SU05001 – 3007<br>SU05001 – 2002<br>SU05001 – 2003                                  | 0.100A – 0.400A<br>0.500A – 3A<br>4A – 6A |             |
|   |   |  | E10480                                    | 0.100A - 7A |
|   |   |  | 29862                                     | 0.100A - 7A |
|   |  | N/A   | 0.100A – 7A                               |             |

### Electrical Characteristics for Series

| % of Ampere Rating | Ampere Rating | Opening Time       |
|--------------------|---------------|--------------------|
| 100%               | 0.100A – 7A   | 4 hours, Minimum   |
| 135%               |               | 1 hour, Maximum    |
| 200%               |               | 5 seconds, Maximum |

### Additional Information



**Datasheet**



**Resources**



**Samples**



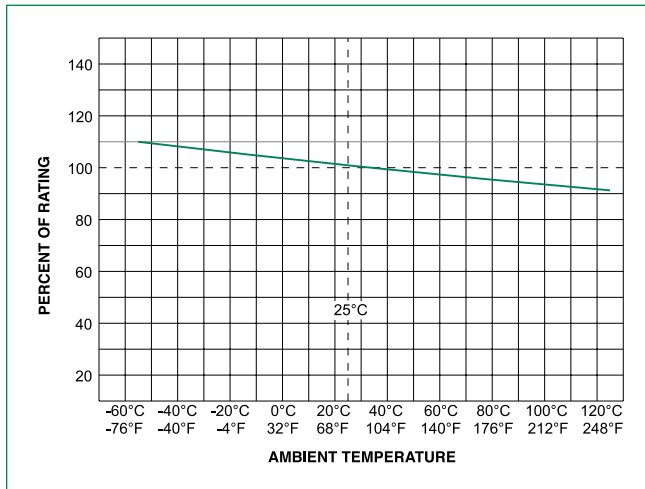
**Accessories**

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

**Electrical Characteristic Specifications by Item**

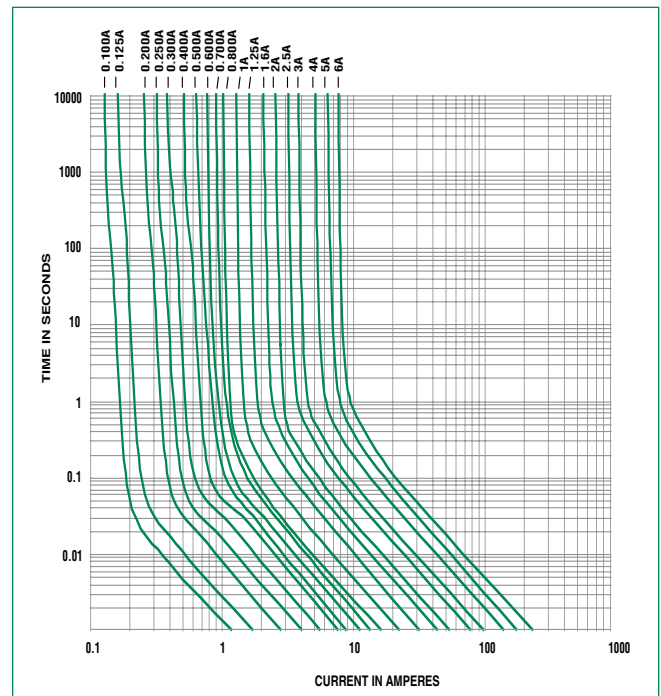
| Amp Code | Amp Rating (A) | Voltage Rating (V) | Interrupting Rating            | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Agency Approvals |    |     |      |    |
|----------|----------------|--------------------|--------------------------------|--------------------------------|---|------------------|----|-----|------|----|
|          |                |                    |                                |                                |   | CE               | UL | SFA | PS E | KC |
| .100     | 0.1            | 250                | 35A @ 250VAC<br>10kA @ 125VAC  | 8.4000                         | 0.00127   | x                | x  | x   | -    | x  |
| .125     | 0.125          | 250                |                                | 5.7500                         | 0.00273   | x                | x  | x   | -    | x  |
| .200     | 0.2            | 250                |                                | 3.1500                         | 0.00867   | x                | x  | x   | -    | x  |
| .250     | 0.25           | 250                |                                | 2.2500                         | 0.01660   | x                | x  | x   | -    | x  |
| .300     | 0.3            | 250                |                                | 1.6000                         | 0.03215   | x                | x  | x   | -    | x  |
| .400     | 0.4            | 250                |                                | 1.075                          | 0.05845   | x                | x  | x   | -    | x  |
| .500     | 0.5            | 250                |                                | 0.4265                         | 0.06915   | x                | x  | x   | -    | x  |
| .600     | 0.6            | 250                |                                | 0.3195                         | 0.11200   | x                | x  | x   | -    | x  |
| .700     | 0.7            | 250                |                                | 0.2625                         | 0.15600   | x                | x  | x   | -    | x  |
| .800     | 0.8            | 250                |                                | 0.1920                         | 0.25300   | x                | x  | x   | -    | x  |
| 001.     | 1              | 250                | 100A @ 250VAC<br>10kA @ 125VAC | 0.1530                         | 0.46750   | x                | x  | x   | x    | x  |
| 1.25     | 1.25           | 250                |                                | 0.1055                         | 1.08500   | x                | x  | x   | x    | x  |
| 01.6     | 1.6            | 250                |                                | 0.0758                         | 2.02500   | x                | x  | x   | x    | x  |
| 002.     | 2              | 250                |                                | 0.0603                         | 2.64500   | x                | x  | x   | x    | x  |
| 02.5     | 2.5            | 250                |                                | 0.0437                         | 5.44500   | x                | x  | x   | x    | x  |
| 003.     | 3              | 250                |                                | 0.0347                         | 8.39500   | x                | x  | x   | x    | x  |
| 03.5     | 3.5            | 250                |                                | 0.0331                         | 17.14000  | x                | x  | -   | x    | -  |
| 004.     | 4              | 125                | 10kA @ 125VAC                  | 0.0246                         | 17.14000  | x                | x  | x   | x    | x  |
| 005.     | 5              | 125                |                                | 0.0184                         | 27.41000  | x                | x  | x   | x    | x  |
| 006.     | 6              | 125                |                                | 0.0148                         | 47.32500  | x                | x  | x   | x    | x  |
| 007.     | 7              | 125                |                                | 0.0157                         | 64.81500  | x                | x  | -   | x    | -  |

**Temperature Re-rating Curve**



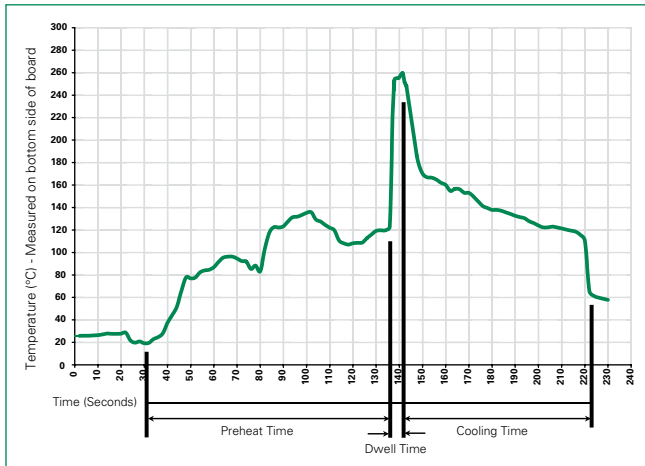
**Note:**  
Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

**Average Time Current Curves**



Please contact Littelfuse for details on T-C curve for 7A rating

### Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

| Wave Parameter                                       | Lead-Free Recommendation          |
|--|-----------------------------------|
| Preheat:<br>(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.

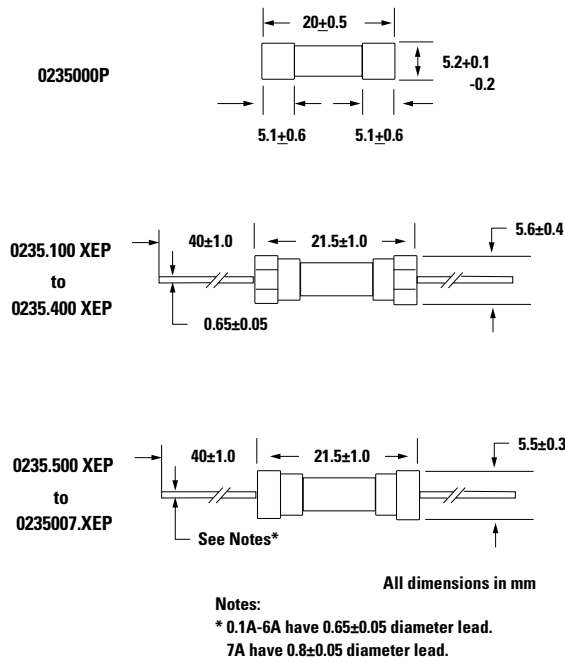
**Note:** These devices are not recommended for IR or Convection Reflow process.

### Product Characteristics

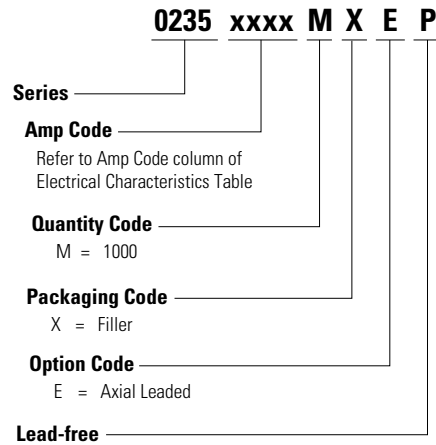
|                          |   |
|--------------------------|---|
| <b>Materials</b>         | Body: Glass<br>Cap: Nickel-plated brass<br>Leads: Tin-plated Copper                         |
| <b>Terminal Strength</b> | MIL-STD-202, Method 211, Test Condition A   |
| <b>Solderability</b>     | MIL-STD-202 Method 208  |
| <b>Product Marking</b>   | Cap 1: Brand logo, current and voltage rating<br>Cap 2: Series and agency approval markings |
| <b>Packaging</b>         | Available in Bulk (M=1000 pcs/pkg) or on Tape/Reel (MRET1=1000 pcs/reel)                    |

|                              |   |
|------------------------------|---|
| <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 + 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



### Part Numbering System



### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width     |
|-------------------|-------------------------|----------|---------------------------|------------------|
| <b>235 Series</b> |                         |          |                           |                  |
| Bulk              | N/A                     | 1000     | MX                        | N/A              |
| Bulk              | N/A                     | 1000     | MXE                       | N/A              |
| Reel and Tape     | EIA 296-E               | 1000     | MRET1                     | T1=53mm (2.087") |

### Recommended Accessories

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

- 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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