

0219004.MXA Datasheet



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| | |
|------------------------------|--|
| DiGi Electronics Part Number | 0219004.MXA-DG |
| Manufacturer | Littelfuse Inc. |
| Manufacturer Product Number | 0219004.MXA |
| Description | FUSE GLASS 4A 250VAC 5X20MM |
| Detailed Description | 4 A 250 V AC DC Fuse Cartridge, Glass Requires Holder 5mm x 20mm |

This model 0219004.MXA is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

0219004.MXA

Series:

219XA

Mounting Type:

Requires Holder

Current Rating (Amps):

4 A

Response Time:

Slow Blow

Breaking Capacity @ Rated Voltage:

150A

Approval Agency:

CCC, CE, CSA, PSE, SEMKO, UL, VDE

Color:

-

DC Cold Resistance:

0.0158 Ohms

Manufacturer:

Littelfuse Inc.

Product Status:

Obsolete

Fuse Type:

Cartridge, Glass

Voltage Rating - AC:

250 V

Package / Case:

5mm x 20mm

Melting I²t:

330

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:

RoHS non-compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8536.10.0020

219XA Series

5×20mm, Time-Lag Fuse



Description

5×20mm time-Lag glass body cartridge fuse designed to IEC specification.

Features

- Designed to International IEC Standards for use globally
- Available in cartridge and axial lead form
- Meets the IEC 60127-2, Sheet 6 specification for time-Lag fuses
- RoHS compliant and lead-free

Applications

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

Web Resources



Download ECAD models, order samples, and find technical resources at www.littelfuse.com

Electrical Characteristics for Series

| % of Ampere Rating | Ampere Rating | Opening Time |
|--------------------|---------------|-----------------------------|
| 150% | 0.04A - 0.1A | 1 hours, Minimum |
| | 0.125A - 6.3A | 1 hours, Minimum |
| 210% | 0.04A - 0.1A | 2 minutes, Maximum |
| | 0.125A - 6.3A | 2 minutes, Maximum |
| 275% | 0.04A - 0.1A | 0.2 sec., Min; 10 sec. Max |
| | 0.125A - 6.3A | 0.6 sec., Min; 10 sec. Max |
| 400% | 0.04A - 0.1A | 0.04 sec., Min; 3 sec. Max |
| | 0.125A - 6.3A | .15 sec., Min; 3 sec. Max |
| 1000% | 0.04A - 0.1A | .01 sec., Min; 0.3 sec. Max |
| | 0.125A - 6.3A | .02 sec., Min; 0.3 sec. Max |









Agency Approvals

| Agency | Agency File/Certificate Number | Ampere Range |
|--------|--|-----------------|
| PS | Cartridge: NBK220604-E10480A DPC NBK230604-E10480A | 1A - 5A 6.3A |
| | Leaded: NBK220604-E10480B NBK230604-E10480B | 1A - 5A 6.3A |
| CCC | CCC self declaration No.:2020970207000068 | 0.040A-6.3A |
| cRU US | E10480 | 0.040A - 6.3A |
| SP | 29862 | 0.125A - 6.3A |
| S | 2301032 | 0.040A - 6.3A |
| DVE | 40016080 | 0.040A - 6.3A |
| ⚡ | KM41462 | 0.125A - 6.3A |
| CE | N/A | 0.040A - 6.3A |
| EAC | RU C-DE.HB26.B.01385/21 | |

219XA Series

5×20mm, Time-Lag Fuse

Electrical Characteristic Specifications by Item

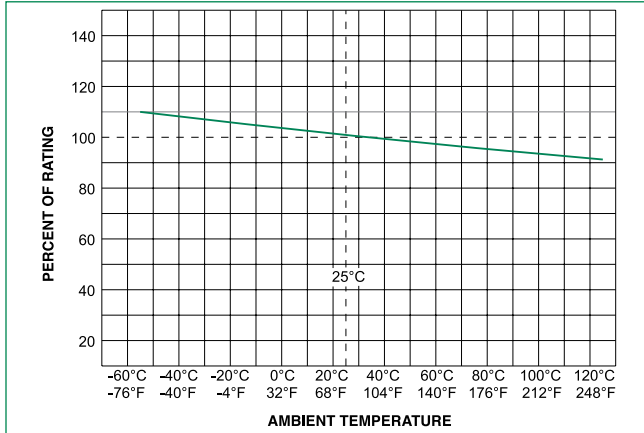
| Amp Code | Amp Rating (A) | Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting Pt (A ² sec) | Maximum Voltage Drop at Rated Current (mV) | Maximum Power Dissipation at 1.5In (W) | Agency Approvals | | | | | | | |
|----------|----------------|--------------------|---------------------|--------------------------------|---|--|--|---|---|---|---|---|---|---|---|
| | | | | | | | |  |  |  |  |  |  |  |  |
| .040 | 0.040 | 250 | 150A @ 250VAC | 31.8620 | 0.01640 | 4000 | 1.6 | | | x | | x | x | x | |
| .050 | 0.050 | 250 | | 21.2920 | 0.01700 | 3500 | 1.6 | | | x | | x | x | x | |
| .063 | 0.063 | 250 | | 14.2685 | 0.03800 | 3000 | 1.6 | | | x | | x | x | x | |
| .100 | 0.100 | 250 | | 6.0180 | 0.07900 | 2500 | 1.6 | | | x | | x | x | x | |
| .125 | 0.125 | 250 | | 4.2000 | 0.13000 | 2000 | 1.6 | x | | x | x | x | x | x | x |
| .160 | 0.160 | 250 | | 2.5500 | 0.31000 | 1900 | 1.6 | x | | x | x | x | x | x | x |
| .200 | 0.200 | 250 | | 1.6000 | 0.32000 | 1500 | 1.6 | x | | x | x | x | x | x | x |
| .250 | 0.250 | 250 | | 1.0495 | 0.54000 | 1300 | 1.6 | x | | x | x | x | x | x | x |
| .315 | 0.315 | 250 | | 0.8475 | 1.23000 | 1100 | 1.6 | x | | x | x | x | x | x | x |
| .400 | 0.400 | 250 | | 0.5350 | 1.40000 | 1000 | 1.6 | x | | x | x | x | x | x | x |
| .500 | 0.500 | 250 | | 0.3700 | 3.00000 | 900 | 1.6 | x | | x | x | x | x | x | x |
| .630 | 0.630 | 250 | | 0.2750 | 4.82000 | 300 | 1.6 | x | | x | x | x | x | x | x |
| .800 | 0.800 | 250 | | 0.1635 | 9.35000 | 250 | 1.6 | x | | x | x | x | x | x | x |
| 001. | 1.00 | 250 | | 0.1165 | 19.20000 | 150 | 1.6 | x | x | x | x | x | x | x | x |
| 1.25 | 1.25 | 250 | | 0.0817 | 27.15000 | 150 | 1.6 | x | x | x | x | x | x | x | x |
| 01.6 | 1.60 | 250 | | 0.0551 | 44.20000 | 150 | 1.6 | x | x | x | x | x | x | x | x |
| 002. | 2.00 | 250 | | 0.0452 | 92.70500 | 150 | 1.6 | x | x | x | x | x | x | x | x |
| 02.5 | 2.50 | 250 | | 0.0305 | 138.00000 | 120 | 1.6 | x | x | x | x | x | x | x | x |
| 3.15 | 3.15 | 250 | | 0.0231 | 202.00000 | 100 | 1.6 | x | x | x | x | x | x | x | x |
| 004. | 4.00 | 250 | | 0.0158 | 330.00000 | 100 | 1.6 | x | x | x | x | x | x | x | x |
| 005. | 5.00 | 250 | 0.0117 | 544.00000 | 100 | 1.6 | x | x | x | x | x | x | x | x | |
| 06.3 | 6.3 | 250 | 0.0107 | 1093.03500 | 100 | 1.6 | x | x | x | x | x | x | x | x | |

*4A-6.3A have an Interrupting rating 100A@350Vac.

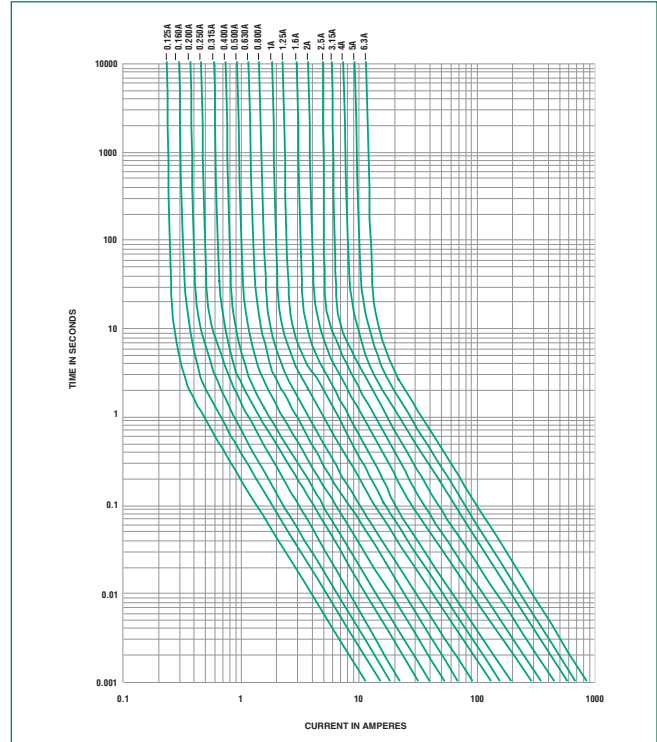
219XA Series

5×20mm, Time-Lag Fuse

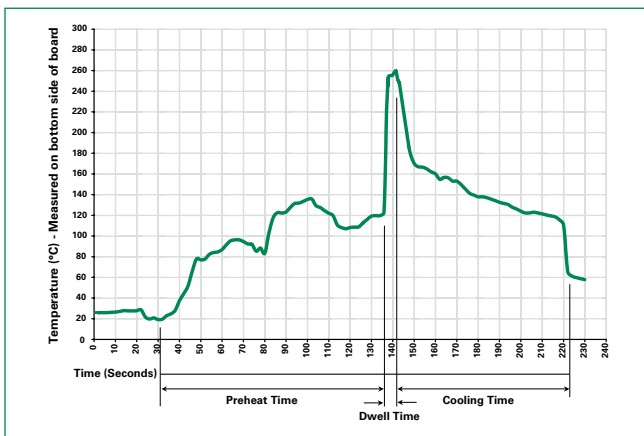
Temperature Re-rating Curve



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.

Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|---------------------|-------------------------|----------|---------------------------|------------------|
| 219XA Series | | | | |
| Bulk | N/A | 1000 | MXA | N/A |
| Bulk | N/A | 1000 | MXAE | N/A |
| Reel and Tape | EIA 296-E | 1000 | MRAET1 | T1=53mm (2.087") |
| Bulk | N/A | 1000 | MXG | N/A |

219XA Series

5×20mm, Time-Lag Fuse

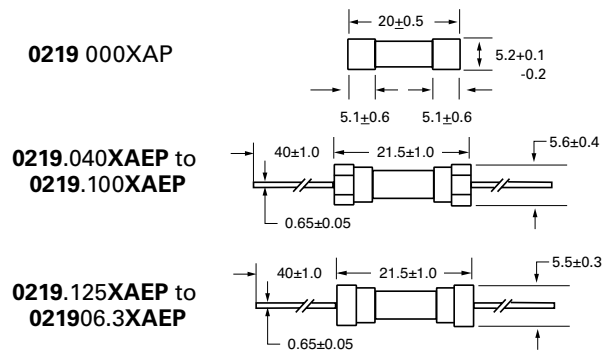
Product Characteristics

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

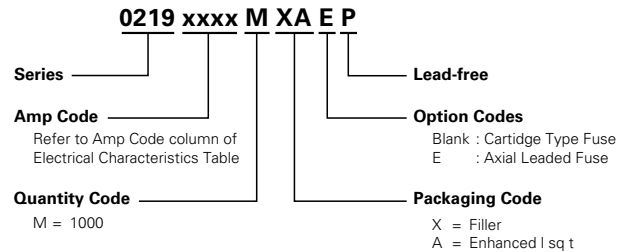
| | |
|------------------------------|--|
| Operating Temperature | -55°C to +125°C |
| Shock | MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C) |
| Vibration | MIL-STD-202, Method 201 |
| Humidity | MIL-STD-202, Method 103, Test Condition A high RH (95%) and elevated temperature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

Dimensions

All dimensions in mm



Part Numbering System



Recommended Accessories

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