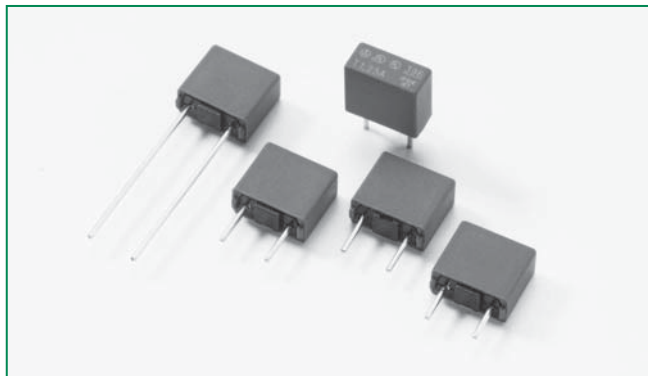


RoHS  **396 Series, TE5®, Time-Lag Fuse**



### Agency Approvals

| Agency                                                                            | Agency File Number      | Ampere Range |
|-----------------------------------------------------------------------------------|-------------------------|--------------|
|  | File number:<br>E 67006 | 50mA - 6.3A  |
|  | File number:<br>E 67006 | 50mA - 6.3A  |
|  | JET1896-31007-1002      | 1A - 5A      |

### Electrical Characteristics

| % of Ampere Rating | Opening Time            |
|--------------------|-------------------------|
| 200%               | 60 Seconds, <b>Max.</b> |

### Description

The 396 Series are TE5®, time-Lag type, 125V rated, fuses, designed in accordance to UL 248-14.

### Features

- Lead-free
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Halogen free
- Available from 50mA to 6.3A

### Applications

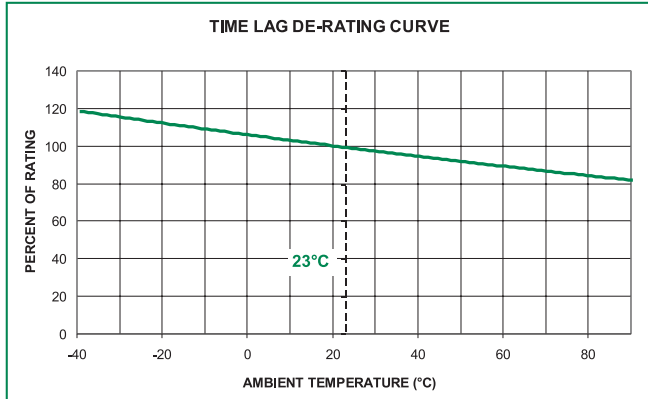
- Battery chargers
- Consumer Electronics
- Power supplies
- Industrial controllers

### Electrical Characteristics

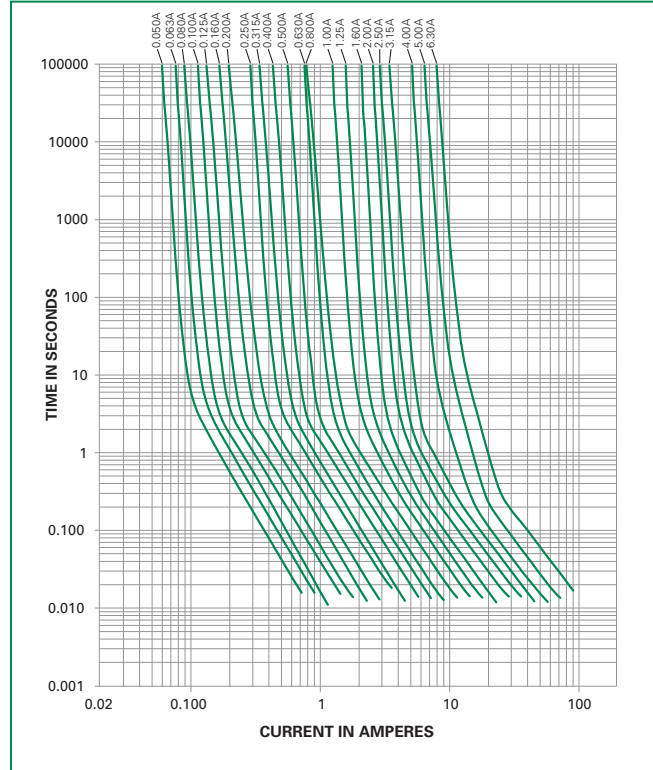
| Amp Code | Rated Current | Voltage Rating | Breaking Capacity                         | Voltage Drop<br>1.0 x I <sub>N</sub><br>max. (mV) | Power Dissipation<br>1.0 x I <sub>N</sub><br>max. (mW) | Melting Integral<br>10 x I <sub>N</sub><br>min. (A²s) | Agency Approvals                                                                      |                                                                                       |                                                                                       |
|----------|---------------|----------------|-------------------------------------------|---------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|          |               |                |                                           |                                                   |                                                        |                                                       |  |  |  |
| 0050     | 50mA          | 125V           | 100A / 125 VAC<br>50-60 Hz<br>cos φ = 1.0 | 900                                               | 45                                                     | 0.0056                                                | x                                                                                     | x                                                                                     |                                                                                       |
| 0063     | 63mA          | 125V           |                                           | 800                                               | 50                                                     | 0.009                                                 | x                                                                                     | x                                                                                     |                                                                                       |
| 0080     | 80mA          | 125V           |                                           | 700                                               | 55                                                     | 0.014                                                 | x                                                                                     | x                                                                                     |                                                                                       |
| 0100     | 100mA         | 125V           |                                           | 600                                               | 60                                                     | 0.025                                                 | x                                                                                     | x                                                                                     |                                                                                       |
| 0125     | 125mA         | 125V           |                                           | 550                                               | 70                                                     | 0.044                                                 | x                                                                                     | x                                                                                     |                                                                                       |
| 0160     | 160mA         | 125V           |                                           | 480                                               | 80                                                     | 0.058                                                 | x                                                                                     | x                                                                                     |                                                                                       |
| 0200     | 200mA         | 125V           |                                           | 390                                               | 80                                                     | 0.1                                                   | x                                                                                     | x                                                                                     |                                                                                       |
| 0250     | 250mA         | 125V           |                                           | 350                                               | 90                                                     | 0.17                                                  | x                                                                                     | x                                                                                     |                                                                                       |
| 0315     | 315mA         | 125V           |                                           | 300                                               | 95                                                     | 0.26                                                  | x                                                                                     | x                                                                                     |                                                                                       |
| 0400     | 400mA         | 125V           |                                           | 250                                               | 100                                                    | 0.32                                                  | x                                                                                     | x                                                                                     |                                                                                       |
| 0500     | 500mA         | 125V           |                                           | 220                                               | 110                                                    | 0.58                                                  | x                                                                                     | x                                                                                     |                                                                                       |
| 0630     | 630mA         | 125V           |                                           | 210                                               | 135                                                    | 0.75                                                  | x                                                                                     | x                                                                                     |                                                                                       |
| 0800     | 800mA         | 125V           |                                           | 160                                               | 130                                                    | 0.98                                                  | x                                                                                     | x                                                                                     |                                                                                       |
| 1100     | 1.00A         | 125V           |                                           | 155                                               | 155                                                    | 2.2                                                   | x                                                                                     | x                                                                                     | x                                                                                     |
| 1125     | 1.25A         | 125V           |                                           | 145                                               | 185                                                    | 3.8                                                   | x                                                                                     | x                                                                                     | x                                                                                     |
| 1160     | 1.60A         | 125V           |                                           | 130                                               | 210                                                    | 5.2                                                   | x                                                                                     | x                                                                                     | x                                                                                     |
| 1200     | 2.00A         | 125V           |                                           | 125                                               | 250                                                    | 7.5                                                   | x                                                                                     | x                                                                                     | x                                                                                     |
| 1250     | 2.50A         | 125V           |                                           | 120                                               | 300                                                    | 14                                                    | x                                                                                     | x                                                                                     | x                                                                                     |
| 1315     | 3.15A         | 125V           |                                           | 110                                               | 350                                                    | 22                                                    | x                                                                                     | x                                                                                     | x                                                                                     |
| 1400     | 4.00A         | 125V           |                                           | 110                                               | 400                                                    | 27                                                    | x                                                                                     | x                                                                                     | x                                                                                     |
| 1500     | 5.00A         | 125V           |                                           | 95                                                | 475                                                    | 59                                                    | x                                                                                     | x                                                                                     | x                                                                                     |
| 1630     | 6.30A         | 125V           |                                           | 95                                                | 570                                                    | 100                                                   | x                                                                                     | x                                                                                     |                                                                                       |

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

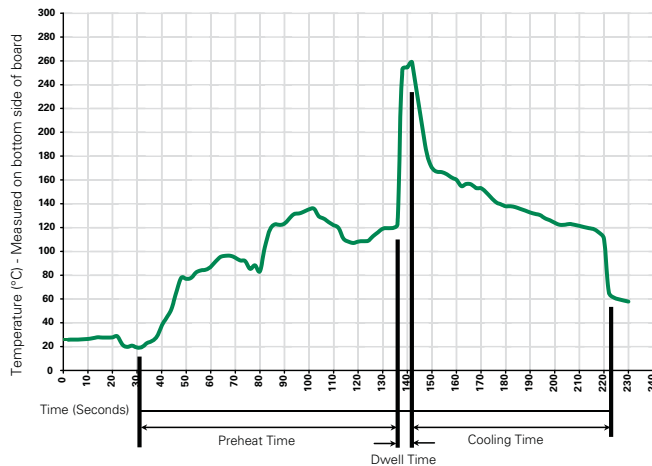
### Temperature Derating Curve



### Average Time Current Curves



### Soldering Parameters - Wave Soldering



#### Recommended Process Parameters:

| Wave Parameter                                              | Lead-Free Recommendation          |
|-------------------------------------------------------------|-----------------------------------|
| <b>Preheat:</b><br>(Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum:                                        | 100° C                            |
| Temperature Maximum:                                        | 150° C                            |
| Preheat Time:                                               | 60-180 seconds                    |
| <b>Solder Pot Temperature:</b>                              | 260° C Maximum                    |
| <b>Solder Dwell Time:</b>                                   | 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.**

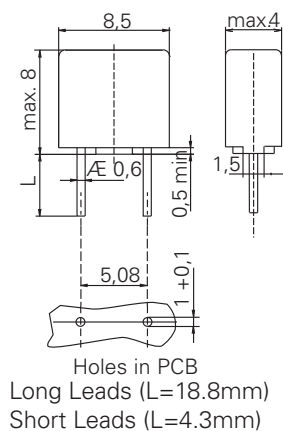


### Product Characteristics

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| <b>Materials</b>                 | Base/Cap: Brown Thermoplastic<br>Polyamide PA 6.6, UL 94 V-0<br>Round Pins: Copper, Tin-plated |
| <b>Lead Pull Strength</b>        | 10 N (IEC 60068-2-21)                                                                          |
| <b>Solderability</b>             | 260°C, ≤ 3s. (Wave)<br>350°C, ≤ 1s. (Soldering Iron)                                           |
| <b>Soldering Heat Resistance</b> | 260°C, 10s. (IEC 60068-2-20)<br>350°C, 3s. (Soldering Iron)                                    |

|                              |                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Operating Temperature</b> | -40°C to +85°C (consider de-rating)                                                                                  |
| <b>Climatic Category</b>     | -40°C to +85°C/21 days<br>(EN 60068-1,-2-1,-2-2,-2-78)                                                               |
| <b>Stock Conditions</b>      | +10 °C to +60 °C<br>RH ≤ 75% yearly average, without<br>dew, maximum value for 30 days-<br>95%                       |
| <b>Vibration Resistance</b>  | 24 cycles at 15 min. each<br>(IEC 60068-2-6)<br>10 - 60 Hz at 0.75 mm amplitude<br>60 - 2000 Hz at 10 g acceleration |

### Dimensions



### Part Numbering System

|                       |                                                                         |             |             |
|-----------------------|-------------------------------------------------------------------------|-------------|-------------|
|                       | <b>396</b>                                                              | <b>xxxx</b> | <b>0000</b> |
| <b>Series</b>         |                                                                         |             |             |
| <b>Amp Code</b>       |                                                                         |             |             |
|                       | Refer to Amp Code column of<br>Electrical Characteristics Table         |             |             |
| <b>Packaging Code</b> |                                                                         |             |             |
|                       | 0000 Tape/Ammopack (1,400 pcs.)<br>0440 Short Leads - Bulk (1,400 pcs.) |             |             |

### Packaging

| Packaging Option  | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|-------------------|-------------------------|----------|---------------------------|--------------|
| <b>396 Series</b> |                         |          |                           |              |
| Tape & Ammopack   | N/A                     | 1,400    | 0000                      | N/A          |
| Short Leads       | N/A                     | 1,400    | 0440                      | N/A          |

## Данный компонент на территории Российской Федерации

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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