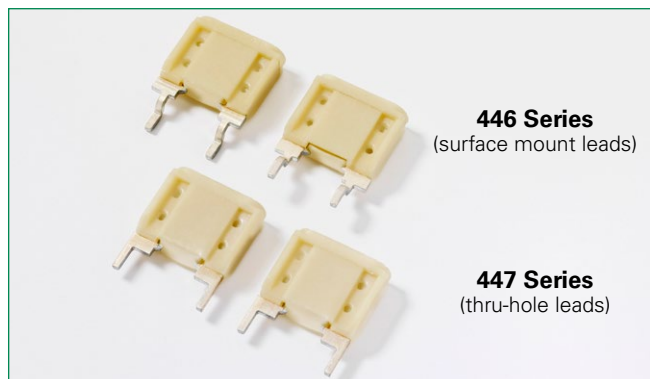


### 446/447 Series EBF Fuse Fast-Acting



#### Description

The 446 and 447 series are circuit-board mountable, flat profile, fast-acting fuses designed for protection of electronic ballasts and power inverter applications. The 446 series is designed with leads for surface mount applications, and the 447 series is designed with leads for through-hole applications.

These fuses are 100% lead-free and meet the requirements of the RoHS directive.

#### Agency Approvals

| Agency                                                                            | Agency File Number | Ampere Range |
|-----------------------------------------------------------------------------------|--------------------|--------------|
|  | E71611             | 2A - 10A     |
|  | 29862              | 2A - 10A     |

#### Electrical Characteristics for Series

| % of Ampere Rating | Opening Time                |
|--------------------|-----------------------------|
| 100%               | 4 hours, Minimum            |
| 200%               | 0.15 sec. Min.; 5 sec. Max. |

#### Features

- RoHS compliant and 100% lead-free
- Ideal for use in electronic lighting ballast, power supply and power inverter applications.
- Rated for use in 125, 250, 277 and 350 VAC circuits.
- Based on the proven reliability of the automotive MINI® Fuse; available from 2 through 10 amperes.
- Evaluated to the requirements of UL 248-1 and CSA 248-1
- Recognized to UL/CSA?NMX 248-1
- Color code on housing CC version for easy amperage identification and application

#### Additional Information



**Datasheet  
446 Series**



**Resources  
446 Series**



**Samples  
446 Series**



**Datasheet  
447 Series**



**Resources  
447 Series**

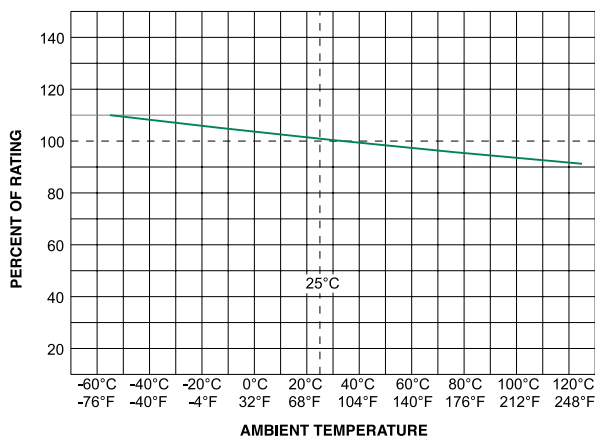


**Samples  
447 Series**

#### Electrical Specifications by Item

| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating                          | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) | Agency Approvals                                                                      |                                                                                       |
|-------------------|----------|------------------------|----------------------------------------------|--------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                   |          |                        |                                              |                                |                                                       |  |  |
| 2.00              | 002.     | 350                    | 100A @ 350VAC<br>50A @ 125VDC<br>450 @ 60VDC | 0.0563                         | 2.8                                                   | x                                                                                     | x                                                                                     |
| 3.00              | 003.     | 350                    |                                              | 0.0336                         | 9.4                                                   | x                                                                                     | x                                                                                     |
| 4.00              | 004.     | 350                    |                                              | 0.0237                         | 17                                                    | x                                                                                     | x                                                                                     |
| 5.00              | 005.     | 350                    |                                              | 0.0178                         | 25                                                    | x                                                                                     | x                                                                                     |
| 7.50              | 07.5     | 350                    |                                              | 0.0110                         | 68                                                    | x                                                                                     | x                                                                                     |
| 10.0              | 010.     | 350                    |                                              | 0.0073                         | 93                                                    | x                                                                                     | x                                                                                     |

### Temperature Re-rating Curve



**Note:**

1. Re-rating depicted in this curve is in addition to the standard re-rating of 25% for continuous operation.

### Soldering Parameters

**446 Series:**

Reflow Solder — 235°C, 5 seconds maximum.

No-clean process recommended.

Wave Solder — Not recommended.

Non-plated terminal surfaces may not meet

MIL-STD-202, Method 208.

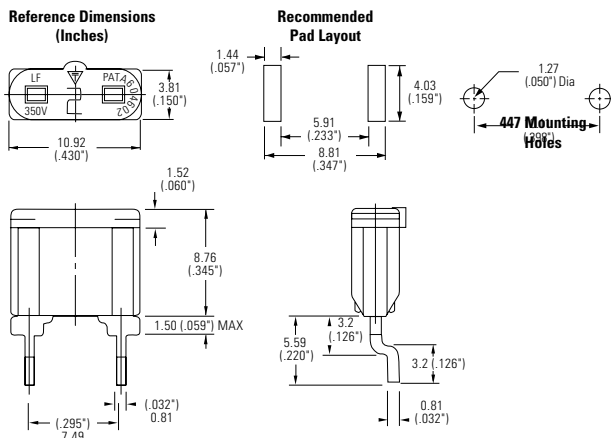
**447 Series:**

Contact Littelfuse for soldering parameters.

Inside terminal face of each lead is non-plated zinc.

Non-plated zinc terminal faces may not meet MIL-STD-202, method 208. To ensure that the fuse is acceptable for the application, appropriate application testing should be performed.

### Dimensions

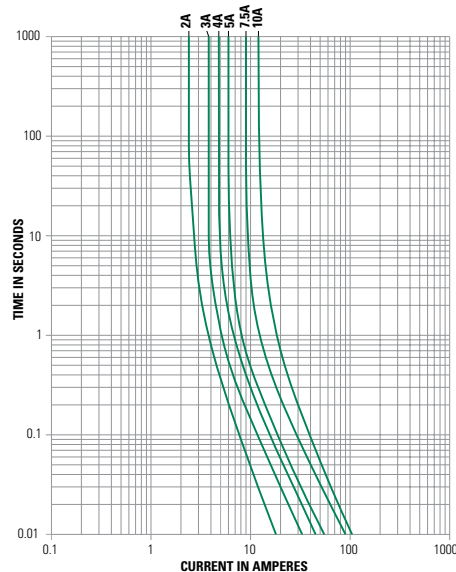


For 447 dimensions, please contact Littelfuse for specifications.

### Product Characteristics

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| <b>Materials</b>             | Body: Plastic Body – Terminations: Tin plated Zinc, Ni barrier |
| <b>Cleaning</b>              | No-cleaning process recommended                                |
| <b>Operating Temperature</b> | -60°C to 125°C                                                 |

### Average Time Current Curves



### Part Numbering System

**Surface Mount Fuses:**

**0446 002. ZRP**

Series | Amp Code | Quantity Code

ZRP = 800

**Through Hole Fuses:**

**0447 002. YXP**

Series | Amp Code | Quantity Code

YXP = 4000

### Packaging

| Packaging Option   | Packaging Specification     | Quantity | Quantity & Packaging Code |
|--------------------|-----------------------------|----------|---------------------------|
| <b>446 Series</b>  |                             |          |                           |
| 24mm Tape and Reel | EIA RS-481-1<br>IEC 60286-3 | 800      | ZRP                       |
| <b>447 Series</b>  |                             |          |                           |
| Bulk Pack          | —                           | 4000     | YXP                       |

### Part Numbering System for Color Code

**Surface Mount Fuses:**

Change the suffix to ZCCRP

**Through Hole Fuses:**

Change the suffix to YCCP

| Current Rating (Amp) | Housing Color |
|----------------------|---------------|
| 2                    | Gray          |
| 3                    | Violet        |
| 4                    | Pink          |
| 5                    | Tan           |
| 7.5                  | Brown         |
| 10                   | Red           |

## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

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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.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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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