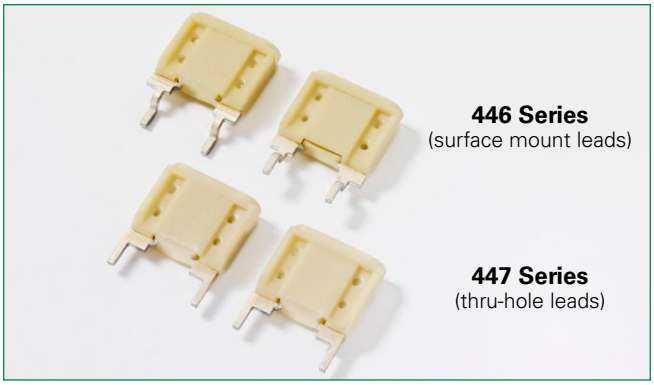
446/447 Series EBF Fuse Fast-Acting



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

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

Electrical Characteristics for Series

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

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^2t (A^2sec)	Agency Approvals	
2.00	002.	350	100A @ 350VAC 50A @ 125VDC 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

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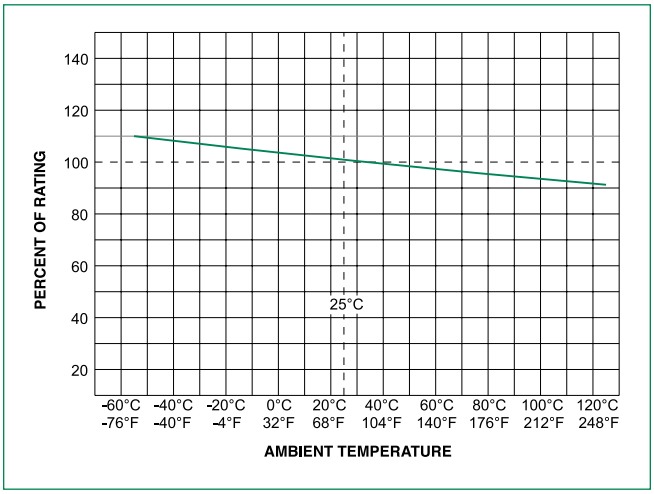
Surface Mount Fuses

EBF Fuse Fast-Acting > 446/447 Series

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.

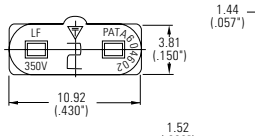
Soldering Parameters

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.

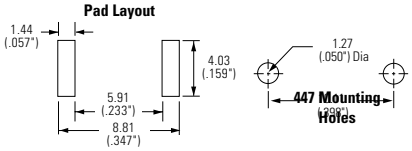
447 Series:
Contact Littelfuse for soldering parameters.
Inside terminal face of each lead is non-plated zinc.
Non-plated zinc terminal faces may not meet MIL-STD-202, method 208. To ensure that the fuse is acceptable for the application, appropriate application testing should be performed.

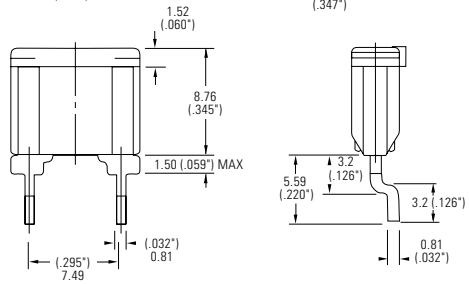
Dimensions

Reference Dimensions (Inches)



Recommended Pad Layout



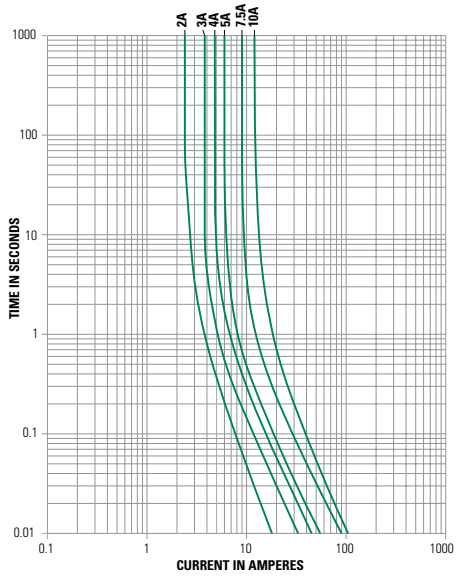


For 447 dimensions, please contact Littelfuse for specifications.

Product Characteristics

Materials	Body: Plastic Body – Terminations: Tin plated Zinc, Ni barrier
Cleaning	No-cleaning process recommended
Operating Temperature	–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
446 Series			
24mm Tape and Reel	EIA RS-481-1 IEC 60286-3	800	ZRP
447 Series			
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

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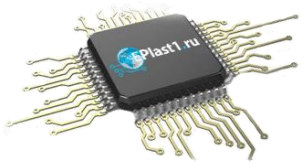
Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.