Surface Mount Fuses EBF Fuse Fast-Acting > 446/447 Series

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	
71	E71611	2A - 10A	
(P :	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



Datasheet 447 Series



Resources 446 Series



447 Series



Samples 446 Series



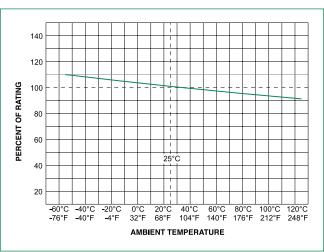
Samples 447 Series

Electrical Specifications by Item

Ampere Rating	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A²sec)	Agency Approvals	
(A)						A	⊕ ;
2.00	002.	350	100A @ 350VAC 50A @ 125VDC 450 @ 60VDC	0.0563	2.8	Х	×
3.00	003.	350		0.0336	9.4	Х	×
4.00	004.	350		0.0237	17	Х	х
5.00	005.	350		0.0178	25	Х	х
7.50	07.5	350		0.0110	68	Х	х
10.0	010.	350		0.0073	93	Х	x

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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 Sarias

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.

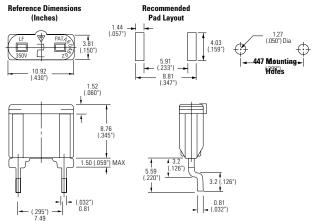
447 Series:

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

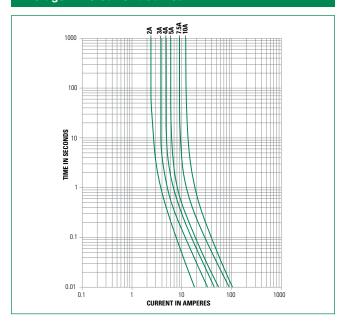


For 447 dimensions, please contact Littelfuse for specifications.

Product Characteristics

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:

Series O447 O02. YXP

Amp Code

Quantity Code

YXP = 4000

Through Hole Fuses:

O446 O02. ZRP
Series
Amp Code
Quantity Code
ZRP = 800

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

<u>0447003.Y</u> <u>0447002.Y</u> <u>0447004.Y</u> <u>044707.5Y</u> <u>0447010.Y</u> <u>0447005.Y</u> <u>0447004.YXP</u> <u>0447002.YXP</u> <u>0447003.YXP</u> <u>0446005.ZRP</u> <u>0446005.ZRP</u> <u>0446005.ZRP</u> <u>044607.5ZRP</u> <u>0446010.ZRP</u> <u>0447010.YXP</u>