



**THE DATASHEET OF  
0525030.MXEP**



## 525 series, Lead-free 3AB Fuse




### Description

The 525 series is AECQ-Compliant, 450VDC rated ceramic fuse with remarkable interrupting rating, which is well suited for circuit protection in high energy applications

### Features

- Available in cartridge and axial lead form
- RoHS compliant and Lead-free
- Compact form factor of 6.3x32mm
- High Interrupting Rating
- Meet Littelfuse's automotive qualifications\*

\* - Largely based on Littelfuse internal AEC-Q200 test plan

Agency	Agency File Number	Ampere Range
	E10480	15A-30A


### Applications

- On board charger
- UPS

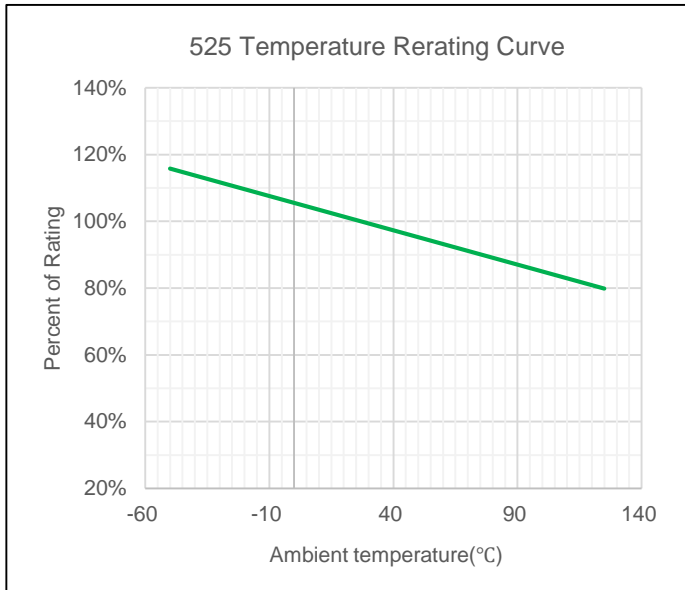
### Electrical Characteristics

% of Ampere Rating	Opening Time
100%	4hours, Min
200%	30mins, Max
300%	10sec , Max

### Electrical Characteristic Specifications

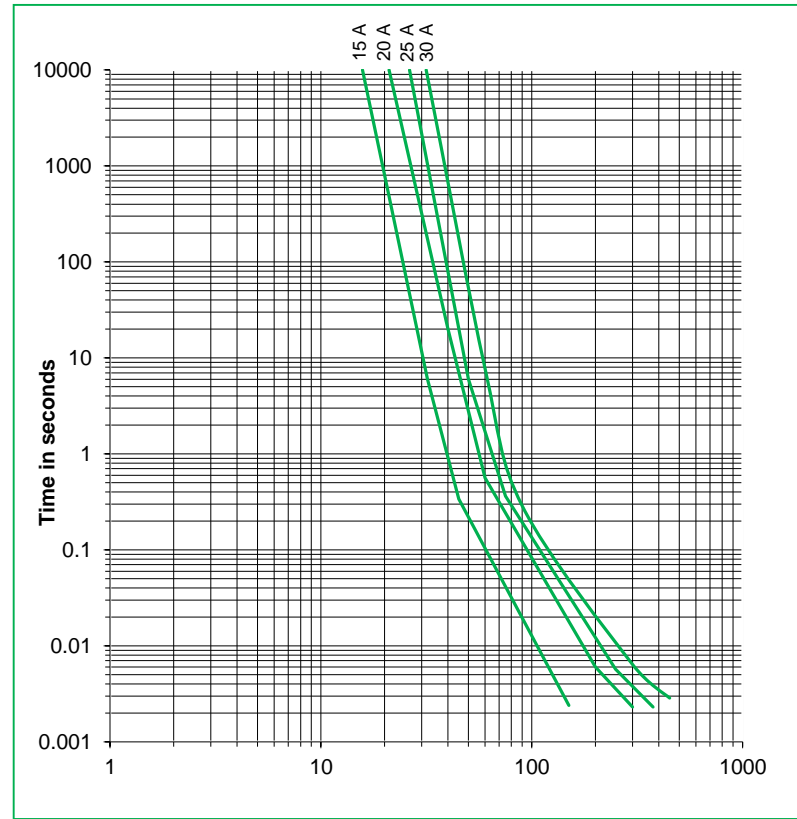
Amp Code	Amp Rating(A)	Max. Voltage Rating(V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)	Agency Approvals
						
015.	15	450VDC	10KA@450VDC	0.0085	55	x
020.	20			0.0049	210	x
025.	25			0.0038	320	x
030.	30			0.0031	580	X

**Temperature Derating Curve**

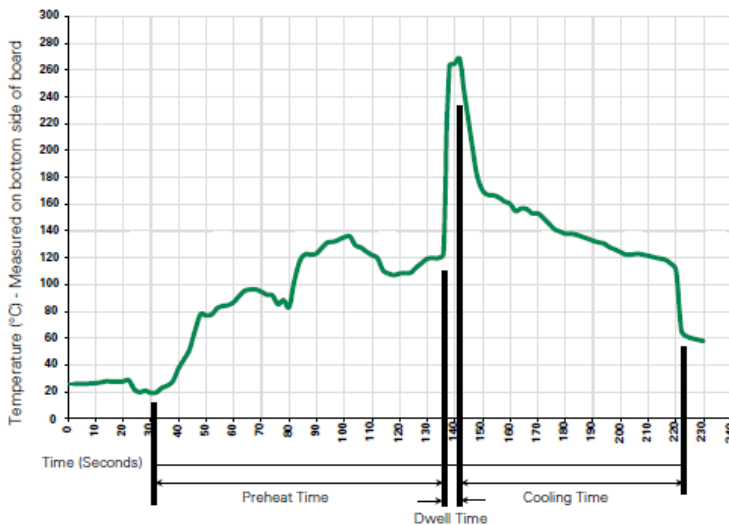


**Note:**  
Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation

**Average Time Current Curve**



**Soldering Parameters – Wave Soldering**



**Recommended Process Parameters:**

Wave Parameter	Lead-Free Recommendation
<b>Preheat:</b> (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:**

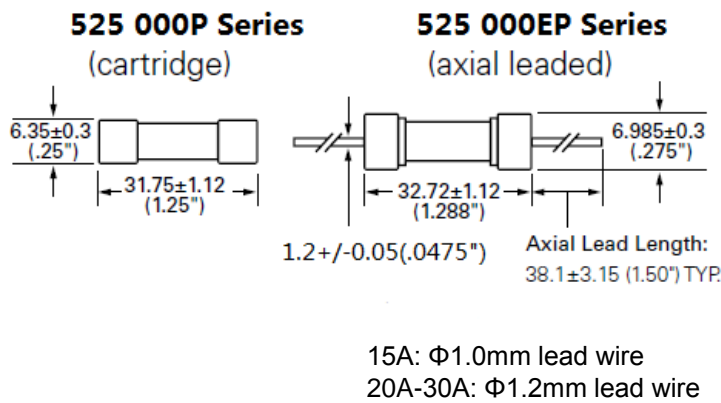
Solder Iron Temperature: 350° C +/- 5° C  
Heating Time: 5 seconds max.

**Note:** These devices are not recommended for IR or Convection Reflow process.

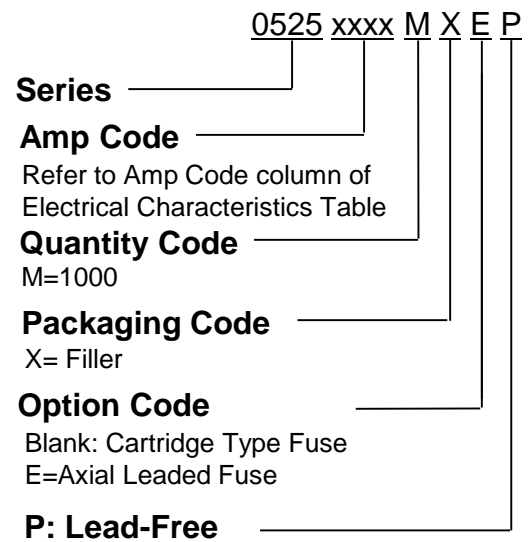
### Product Characteristics

<b>Materials</b>	Body: Ceramic Cap: Nickel-plated brass Leads: Tin-plated copper	<b>Operating Temperature</b>	-55°C to +125°C
<b>Terminal Strength</b>	Mil-STD-202G, Method 211A, Test condition A	<b>Thermal Shock</b>	MIL-STD-202G, Method 107G, Test condition B
<b>Solderability</b>	Reference MIL-STD-202 method 208	<b>Vibration</b>	MIL-STD-202G, Method 201A
<b>Product Marking</b>	Cap 1: Brand logo, current and voltage ratings Cap 2: Agency approval marks	<b>Moisture Resistance</b>	MIL-STD-202G, Method 103B, Test condition A
		<b>Salt Spray</b>	MIL-STD-202G, Method 101E, Test condition B

### Dimensions



### Part Numbering System



### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
<b>525 Series</b>				
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View 0525030.MXEP](#) on WIN SOURCE

 [Littelfuse Inc.](#) Information

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management