

285 Series, 5×20 mm, Audio & Medical Fuse



**Agency Approvals**

Agency	Agency File Number	Ampere Range
	NBK080205-E10480A NBK250702-E10480E NBK100408-JP1021A	1A – 5A 6.3A & 15A 20A

**Additional Information**



Datasheet



Resources



Samples



Accessories

For recommended fuse accessories for this product series, see '[Recommended Accessories](#)' section.

**Description**

5×20mm fuse with gold or rhodium-plated caps and colourful ceramic body. Designed to IEC Cartridge Fuse standard.

**Features**

- Designed to International (IEC) Standard for use globally. Meets the IEC 60127-2, Sheet 5 specification for time-lag fuses
- Available in Cartridge form
- RoHS compliant and lead-free
- Low magnetic susceptibility

**Applications**

Ideal for supplementary protection in appliances or utilization equipment, especially in audio and medical equipment.

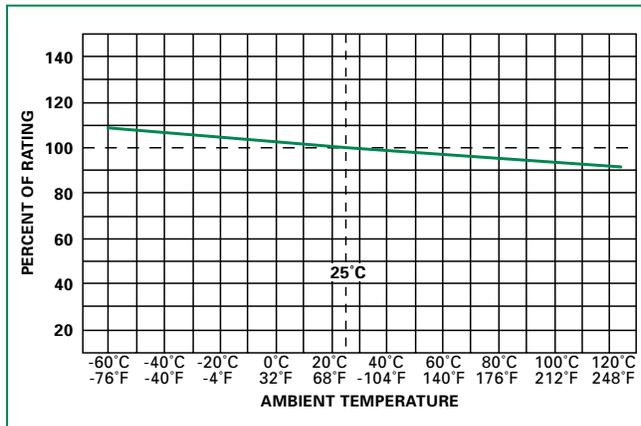
**Electrical Characteristics for Series**

% of Ampere Rating	Ampere Rating	Opening Time
150%	0.125A - 0.5A	60 minutes, Minimum
	1A - 3.15A	60 minutes, Minimum
	5A - 6.3A	60 minutes, Minimum
	8A - 20A	30 minutes, Minimum
210%	0.125A - 0.5A	30 minutes, Maximum
	1A - 3.15A	30 minutes, Maximum
	5A - 6.3A	30 minutes, Maximum
	8A - 20A	30 minutes, Maximum
275%	0.125A - 0.5A	250 ms. Min.; 80 sec. Max.
	1A - 3.15A	750 ms. Min.; 80 sec. Max.
	5A - 6.3A	750 ms. Min.; 80 sec. Max.
	8A - 20A	750 ms. Min.; 80 sec. Max.
400%	0.125A - 0.5A	50 ms. Min.; 5 sec. Max.
	1A - 3.15A	95 ms. Min.; 5 sec. Max.
	5A - 6.3A	150 ms. Min.; 5 sec. Max.
	8A - 20A	150 ms. Min.; 5 sec. Max.
1000%	0.125A - 0.5A	50 ms. Min.; 150 ms. Max.
	1A - 3.15A	10 ms. Min.; 150 ms. Max.
	5A - 6.3A	10 ms. Min.; 150 ms. Max.
	8A - 20A	10 ms. Min.; 150 ms. Max.

## Electrical Characteristics Specification by Item

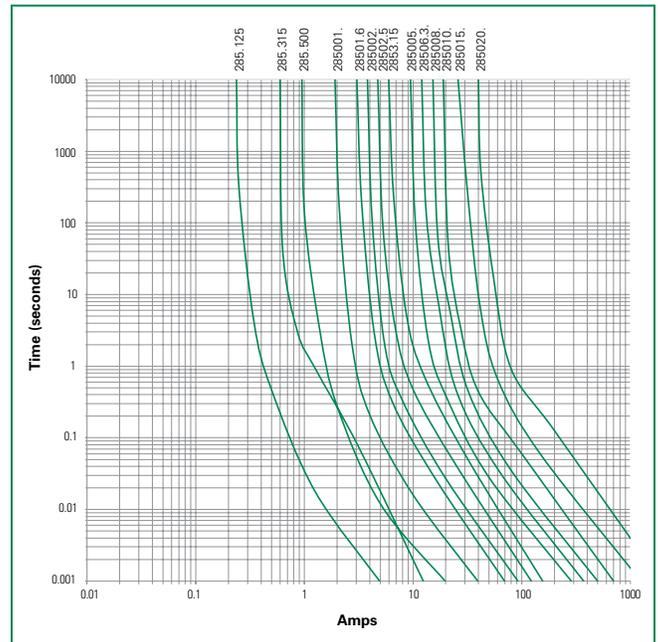
Amp Code	Amp Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> Sec.)	Nominal Voltage Drop at Rated Current (mV)	Nominal Power Dissipation at Rated Current (W)	Agency Approvals
								PS E
.125	0.125	250	1500A @ 250VAC	13.1240	0.028	2600	1.6	
.315	0.315	250		0.9275	0.625	1100	1.6	
.500	0.5	250		1.1215	0.3	850	1.6	
001	1	250		0.1455	1.6	350	2.5	x
01.6	1.6	250		0.0706	7.168	200	2.5	x
002	2	250		0.0546	10.8	190	2.5	x
02.5	2.5	250		0.0384	25.625	180	2.5	x
3.15	3.15	250		0.0269	51.597	140	4	x
005	5	250		0.0141	70	100	4	x
06.3	6.3	250		0.0107	130.977	100	4	x
008	8	250		0.0089	224	100	4	x
010	10	250	0.0065	361	100	4	x	
015	15	250	500A @ 250VAC	0.0031	1305	100	4	x
020	20	250	400A @ 250VAC	0.0024	3225.6	100	4	x

## Temperature Re-rating Curve



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

## Average Time Current Curves



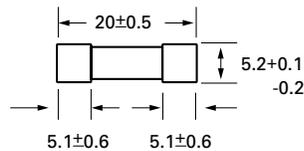
## Product Characteristics

<b>Materials</b>	Body : Ceramic Cap : Gold / Rhodium-plated brass
<b>Terminal Strength</b>	MIL-STD-202, Method 211, Test condition A
<b>Product Marking</b>	Cap 1: Brand logo, current and voltage rating Cap 2: Agency approval markings

<b>Operating Temperature</b>	-55°C to +125°C
<b>Thermal Shock</b>	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
<b>Vibration</b>	MIL-STD-202, Method 201
<b>Humidity</b>	MIL-STD-202, Method 103, Test condition A: High RH (95%) and elevated temp. (40°C) for 240 hours
<b>Salt Spray</b>	MIL-STD-202, Method 101, Test condition B

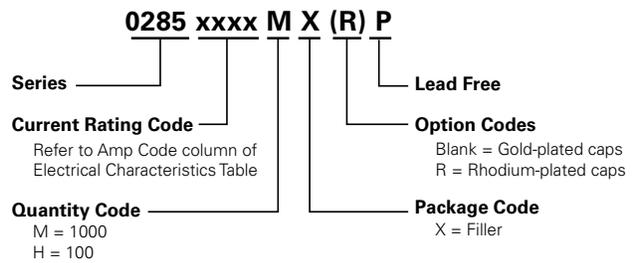
## Dimensions

0285.125 XP/XRP  
to  
0285020 XP/XRP



All dimensions in mm

## Part Numbering System



## Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
<b>285 Series</b>				
Bulk	N/A	100	HX	N/A
Bulk	N/A	1000	MX	N/A

## Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
Holder	<a href="#">345_ISF</a>	Panel Mount Shock-Safe Fuseholder	250	10
	<a href="#">345</a>	Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options		20
	<a href="#">830</a>	PC Mount Shock-Safe Miniature Fuseholder		16
Block	<a href="#">520</a>	Metric OMNI-BLOK® Fuse Block		10
	<a href="#">646</a>	PC Mount Miniature Fuse Block		6.3
	<a href="#">658</a>	Surface Mount Miniature Fuse Block		10
Clip	<a href="#">520_W</a>	PC Mount Miniature Fuse Clip		6.3
	<a href="#">111</a>	PC Board Mount Fuse Clip		10
	<a href="#">445</a>	PC Board Mount Fuse Clip		10

- Notes:
- Do not use in applications above rating.
  - Please refer to fuseholder data sheet for specific re-rating information.
  - Please contact factory for applications greater than the max voltage and amperage shown.