

## **Axial Lead & Cartridge Fuses**

5×20 mm > Audio & Medical > 285 Series

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



## Description

The 285 Series is a 5×20mm, high-breaking capacity, timelag fuse with gold or rhodium-plated caps and a colourful ceramic body. This fuse is designed specifically for audio and medical applications.

### Features

- Designed to IEC 60127-1 and IEC 60127-2, Sheet 5
- Available in Cartridge • form
- RoHS compliant and lead-free
- Low magnetic susceptibility
- Approved to DENAN's ٠ J60127-1 and J60127-2

RoHS

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

### 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		
	0.125A - 0.5A			
4500/	1A - 3.15A	60 minutes, Minimum		
150%	5A - 6.3A			
	8A - 20A	30 Minutes, Minimum		
	0.125A - 0.5A			
2100/	1A - 3.15A	20 Minutes Mavingung		
210%	5A - 6.3A	30 Minutes, Maximum		
	8A - 20A			
	0.125A - 0.5A	250 ms. Min.; 80 sec. Max.		
275%	1A - 3.15A			
275%	5A - 6.3A	750 ms. Min.; 80 sec. Max.		
	8A - 20A			
	0.125A - 0.5A	50 ms. Min.; 5 sec. Max.		
400%	1A - 3.15A	95 ms. Min.; 5 sec. Max.		
400%	5A - 6.3A	150 ma Min - Frank May		
	8A - 20A	150 ms. Min.; 5 sec. Max.		
	0.125A - 0.5A	50 ms. Min.; 150 ms. Max.		
1000%	1A - 3.15A			
1000%	5A - 6.3A	10 ms. Min.; 150 ms. Max.		
	8A - 20A			

# **Additional Information**





see 'Recommended Accessories' section.





For recommended fuse accessories for this product series,



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Electrical Characteristics Specification by Item								
Amp Code	Amp Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² Sec.)	Nominal Voltage Drop at Rated Current (mV)	Nominal Power Dissipation at Rated Current (W)	Agency Approvals
.125	0.125	250		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	1500A @ 250VAC	0.1455	1.6	350	2.5	х
01.6	1.6	250		0.0706	7.168	200	2.5	х
002	2	250		0.0546	10.8	190	2.5	х
02.5	2.5	250	1500A @ 250VAC	0.0384	25.625	180	2.5	х
3.15	3.15	250		0.0269	51.597	140	4	х
005	5	250		0.0141	70	100	4	х
06.3	6.3	250		0.0107	130.977	100	4	х
008	8	250		0.0089	224	100	4	х
010	10	250		0.0065	361	100	4	х
015	15	250	500A @ 250VAC	0.0031	1305	100	4	х
020	20	250	400A @ 250VAC	0.0024	3225.6	100	4	х







## **Axial Lead & Cartridge Fuses**

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

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

## Dimensions

0285.125 XP/XRP to 0285020 XP/XRP



All dimensions in mm



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

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

Notes: 1. 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.

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