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

Description

The 285 Series is a 5×20mm, high-breaking capacity, time-lag 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 J60127-1 and J60127-2

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.

Additional Information

Datasheet | Resources | Samples | Accessories

For recommended fuse accessories for this product series, see 'Recommended Accessories' section.

Electrical Characteristics for Series

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

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Axial Lead & Cartridge Fuses

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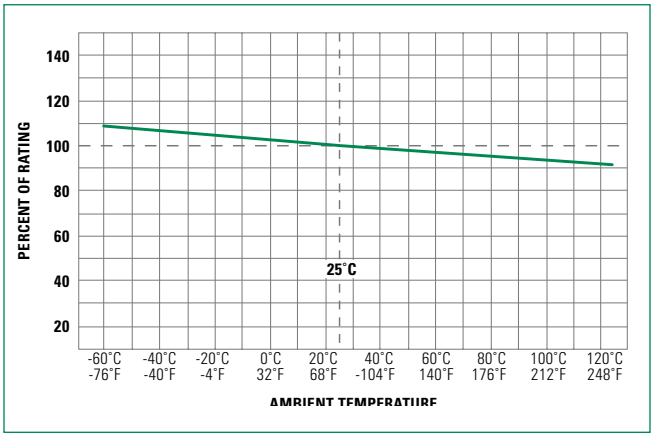
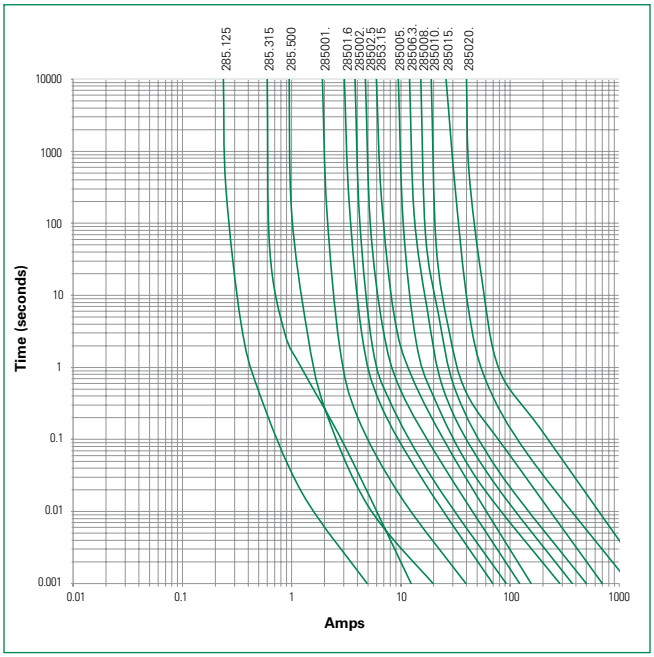
Electrical Characteristics Specification by Item

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 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



Average Time Current Curves



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Axial Lead & Cartridge Fuses

5×20 mm > Audio & Medical > 285 Series

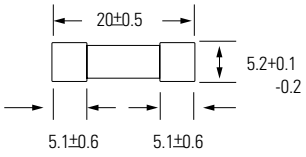
Product Characteristics

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

Part Numbering System

0285 xxxx M X (R) P

Series

Current Rating Code
Refer to Amp Code column of Electrical Characteristics Table

Quantity Code
M = 1000
H = 100

Package Code
X = Filler

Option Codes
Blank = Gold-plated caps
R = Rhodium-plated caps

Lead Free

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

Recommended Accessories

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

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