

ADC

High voltage 1/4" x 1-1/4" fast-acting ceramic tube fuse



Product features

- High voltage ceramic tube fuse
- Compact 3AB footprint:
1/4" x 1 1/4" (6.3 x 32 mm)
- Fast-acting performance
- 500 Vac/Vdc rating
- Cartridge and axial lead versions available
- Very high interrupting ratings to help safely protect against dangerous high fault currents
- Fuse accessories (cartridge version):
[HVP Panel mount fuse holder \(480V\)](#)
[HVI In-line fuse holder \(600V\)](#)
[S-8000 Panel mount fuse block \(600V\)](#)
[1Axxx \(up to 600V\) fuse clips](#)

Agency information

- cURus Recognition file: E19180



Applications

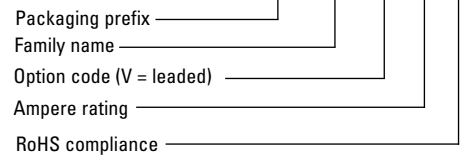
- Industrial control panels
- Motor control - UL 508A panels
- Uninterruptible power supplies (UPS)
- Variable frequency drives
- Energy storage and battery systems
- High voltage power conversion

Environmental compliance



Ordering part number

BK-ADC-V2-15-R



Packaging prefix

- **BK-**
100 pieces in polybag

Option code

- **-V2**
Axial leads with 50.8 length– copper tinned wire with nickel plated brass over caps

Electrical characteristics

Amp Rating	1.5 In maximum	2.0 In maximum	3.0 In maximum
12 A - 30 A	30 minutes	5 minutes	10 seconds

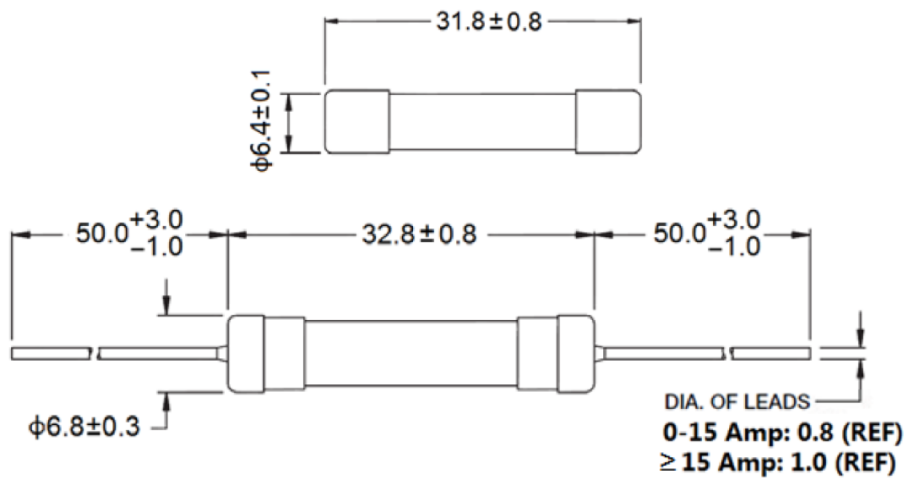
Product specifications

Part number	Current rating (A)	Voltage rating (Vac/Vdc)	Interrupting rating @ rated voltage		Typical resistance ¹ (mΩ)	Typical voltage drop ³ (mV)	Typical melting ² I ² t (A ² s)
			(A) Vac	(A) Vdc			
ADC-12-R	12	500	30 KA @ 500	20 KA @ 500	12.3	310	120
ADC-15-R	15	500	30 KA @ 500	20 KA @ 500	8.0	205	50
ADC-20-R	20	500	30 KA @ 500	20 KA @ 500	5.5	210	88
ADC-25-R	25	500	30 KA @ 500	20 KA @ 500	4.6	245	125
ADC-30-R	30	500	30 KA @ 500	20 KA @ 500	3.7	255	270

1. Typical resistance measured at <10% of rated current at +25 °C
2. Typical melting I²t measured at 10x of rated current
3. Typical voltage drop measured at +25 °C and rated current

Dimensions- mm

Drawing not to scale



General specifications

Operating temperature: -50 °C to +125 °C with proper correction factor applied

Terminal strength: MIL-STD-202G, Method 211A, Test Condition A, Pull force 10N/10S

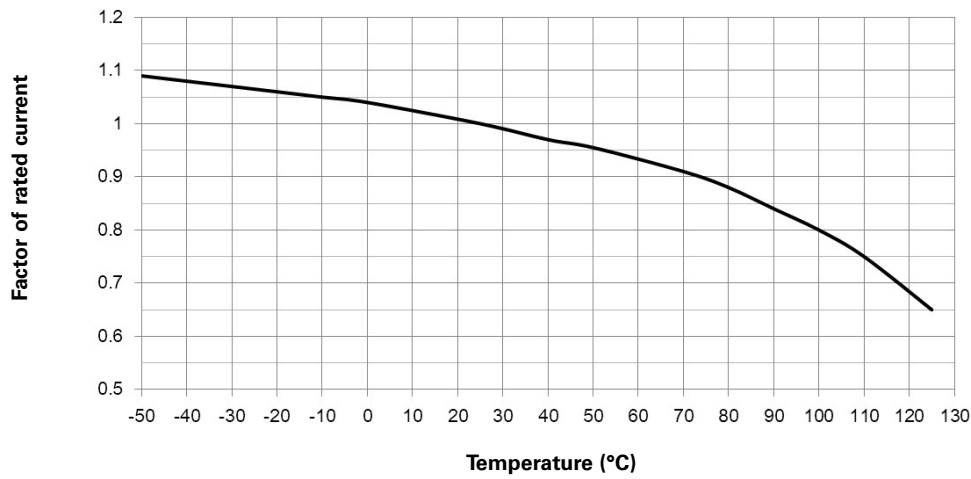
Thermal shock: MIL-STD-202, Method 107G: -65 °C to +125 °C, 5 cycles

Mechanical vibration: MIL-STD-202 Method 201

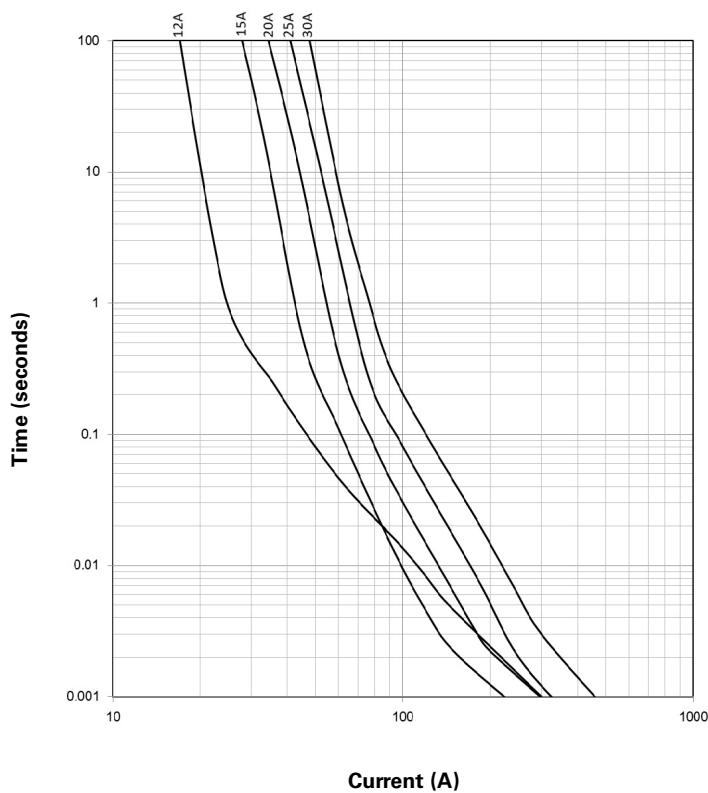
Humidity: MIL-STD-202G, Method 103B, Test Condition A: 95% RH, +40 °C, 240 hours

Solderability: MIL-STD-202 Method 208

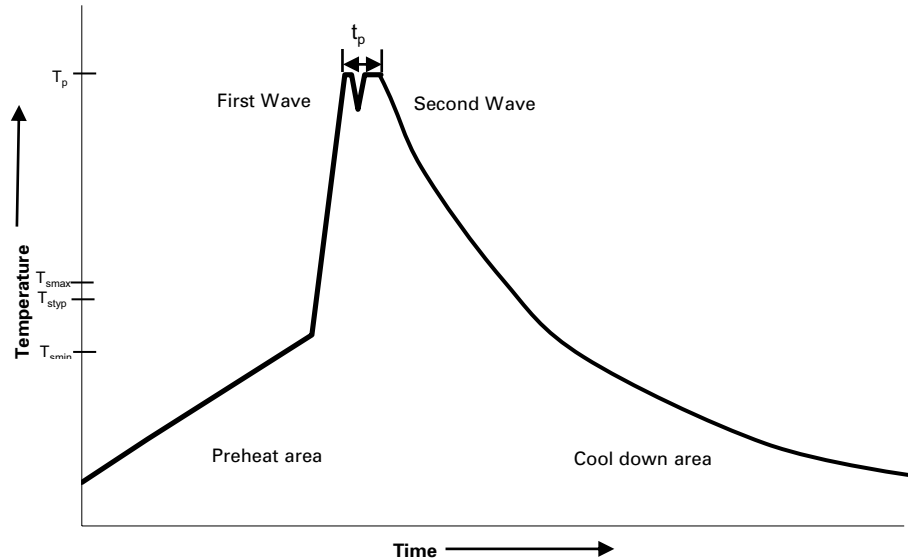
Temperature derating curve



Time vs. current curve



Wave solder profile (Axial lead only)



Reference EN 61760-1:2006

Profile feature	Standard SnPb solder	Lead (Pb) free solder
Preheat		
• Temperature min. (T_{smin})	100 °C	100 °C
• Temperature typ. (T_{styp})	120 °C	120 °C
• Temperature max. (T_{smax})	130 °C	130 °C
• Time (T_{smin} to T_{smax}) (t_s)	70 seconds	70 seconds
Δ preheat to max Temperature	150 °C max.	150 °C max.
Peak temperature (T_p)*	235 °C – 260 °C	250 °C – 260 °C
Time at peak temperature (t_p)	10 seconds max 5 seconds max each wave	10 seconds max 5 seconds max each wave
Ramp-down rate	~ 2 K/s min ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~5 K/s max
Time 25 °C to 25 °C	4 minutes	4 minutes

Manual solder

+350 °C (4-5 seconds by soldering iron), generally manual/hand soldering is not recommended.

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