

Type 0ADKC / 0ADKP

Time-Delay, Ceramic Tube Fuse Series

HF **Pb** 0ADKC/0ADKP Series, 5x20mm Ceramic Tube Time-Delay Fuse RoHS Compliant

Description

A 600Vac / 500Vdc rated ceramic tube cartridge fuse in a compact 5 x 20mm Package.

Features

- Time-delay, high breaking capacity
- Ceramic tube, Silver plated copper cap construction
- Available in cartridge and pigtail axial lead
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free
- Lead Free



Applications

- Industrial Power Supplies
- DC/DC modules

LEAD FREE = **Pb**
 HALOGEN FREE = **HF**

Physical Specifications

| | |
|-----------|---|
| Materials | Body : Ceramic |
| | Cap : Silver Plated Copper Alloy |
| | Pigtail Leads : Tin Plated Copper |
| Marking | On Fuse : |
| | "bel" |
| | "0ADK", "Current Rating", "Voltage Rating", "Appropriate Safety Logos" |
| | On Label : |
| | "bel", "0ADKC" or "0ADKP", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and " ", " " (China RoHS compliant). |

Safety Agency Approvals

| Safety Agency | Safety Agency Certificate | Ampere Rating/ Voltage Rating | Ampere Range / Volt @ I.R. ability* |
|---------------|---------------------------|---|---|
| | E20624 | 500mA-20A/600V AC 500mA-20A/500V DC 500mA-10A/400V DC | 500mA-20A/600V@200A AC 500mA-20A/500V@300A DC 500mA-10A/400V@2KA DC |
| | B 058849 0020 | 1A-16A/500V AC/ DC | 1A-10A/500V@500A AC 12A-16A/500V@200A AC 1A-16A/500V@ 1KA DC |

*I.R.= Interrupting Rating = Short Circuit Rating(Amps)



Electrical Characteristics

| Rated Current | 1.5In | 2.1In | 2.75In | 3.0In | 4.0In | 10.0In |
|---------------|-------------|-------------|-------------|------------|------------|------------|
| <1A | 1 hour min. | N/A | N/A | 120sec max | N/A | N/A |
| 1A-3.15A | 1 hour min. | 30min. max. | 750ms-80sec | N/A | 95ms-5sec | 10ms-150ms |
| 4A-6.3A | 1 hour min. | 30min. max. | 750ms-80sec | N/A | 150ms-5sec | 10ms-150ms |
| 8A-20A | 30min. min | 30min. max. | 750ms-80sec | N/A | 150ms-8sec | 10ms-150ms |

Environmental Specifications

| | |
|-----------------------|--|
| Operating Temperature | -40°C to +125°C |
| Terminal Strength | MIL-STD-202G, Method 211 Test Condition A |
| Lead Solderability | MIL-STD-202, Method 208 |
| Mechanical Vibration | MIL-STD-202, Method 201 |
| Thermal Shock | MIL-STD-202, Method 107 Test Condition B (5 cycles -65°C to +125°C) |
| Humidity | MIL-STD-202, Method 103, Test Condition A (95%RH and 40°C for 240 hours) |

Electrical Specifications

| Part Number | Ampere Rating | Typical Cold Resistance (mOhms) | Voltage and Interrupting Ratings | Typical Voltage Drop (mV) | Typical Pre-Arcing I ² t (A ² Sec) | Agency Approvals | |
|--------------|---------------|---------------------------------|--|----------------------------|--|---|---|
| | | | | | |  |  |
| 0ADKC0500-XX | 500mA | 382 | See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings | 190 | 0.287 | Y | |
| 0ADKP0500-XX | | | | | | | |
| 0ADKC0630-XX | 630 mA | 359 | | 261 | 0.34 | Y | |
| 0ADKP0630-XX | | | | | | | |
| 0ADKC0800-XX | 800mA | 175 | | 144 | 1.18 | Y | |
| 0ADKP0800-XX | | | | | | | |
| 0ADKC1000-XX | 1A | 210 | | 250 | 1.4 | Y | Y |
| 0ADKP1000-XX | | | | | | | |
| 0ADKC1250-XX | 1.25A | 134 | | 138 | 2.34 | Y | Y |
| 0ADKP1250-XX | | | | | | | |
| 0ADKC1600-XX | 1.6A | 100 | | 180 | 3.9 | Y | Y |
| 0ADKP1600-XX | | | | | | | |
| 0ADKC2000-XX | 2A | 65 | | 158 | 9.4 | Y | Y |
| 0ADKP2000-XX | | | | | | | |
| 0ADKC2500-XX | 2.5A | 34 | | 93 | 12.5 | Y | Y |
| 0ADKP2500-XX | | | | | | | |
| 0ADKC3150-XX | 3.15A | 28 | | 110 | 17.8 | Y | Y |
| 0ADKP3150-XX | | | | | | | |
| 0ADKC4000-XX | 4A | 24 | | 118 | 25 | Y | Y |
| 0ADKP4000-XX | | | | | | | |
| 0ADKC5000-XX | 5A | 17 | 104 | 50 | Y | Y | |
| 0ADKP5000-XX | | | | | | | |
| 0ADKC6300-XX | 6.3A | 13 | 100 | 80 | Y | Y | |
| 0ADKP6300-XX | | | | | | | |
| 0ADKC8000-XX | 8A | 9 | 85 | 179 | Y | Y | |
| 0ADKP8000-XX | | | | | | | |
| 0ADKC9100-XX | 10A | 7.6 | 90 | 400 | Y | Y | |
| 0ADKP9100-XX | | | | | | | |
| 0ADKC9120-XX | 12A | 6 | 80 | 576 | Y | Y | |
| 0ADKP9120-XX | | | | | | | |
| 0ADKC9150-XX | 15A | 4.3 | 75 | 900 | Y | Y | |
| 0ADKP9150-XX | | | | | | | |
| 0ADKC9160-XX | 16A | 3.7 | 68 | 1024 | Y | Y | |
| 0ADKP9160-XX | | | | | | | |
| 0ADKC9200-XX | 20A | 2.7 | 65 | 2400 | Y | | |
| 0ADKP9200-XX | | | | | | | |

Consult manufacturer for other ratings

*DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

*Typical Pre-arcing I²t are measured at 10In Current



Specifications subject to change without notice

Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302 USA

+1 201.432.0463
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belfuse.com/circuit-protection

Temperature Re-Rating Curve



Average Time Current Curve



Soldering parameters for Pigtail Type

- Wave Soldering Compatible: (260°C, 10 sec max)
- Hand-Solder:
 - Solder Iron Temperature: (350°C +/- 5°C)
 - Heating Time: (5 sec max)



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Fuse FGNO Explanation

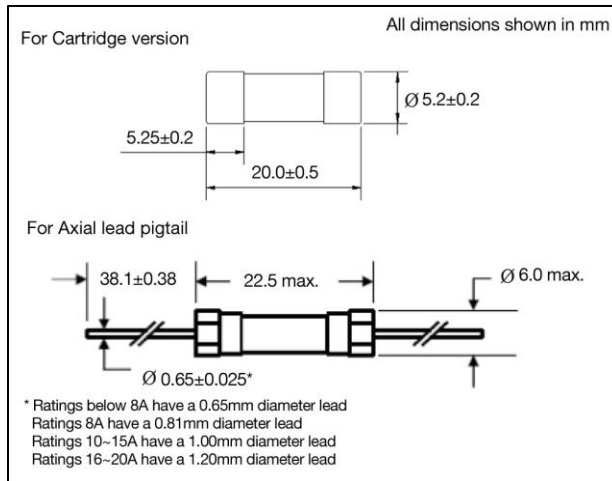
0ADK X [XXXX] -XX

0ADKC/P=0ADKC/P; [XXXX]=Ampere Rating; XX=See Ordering Information as below

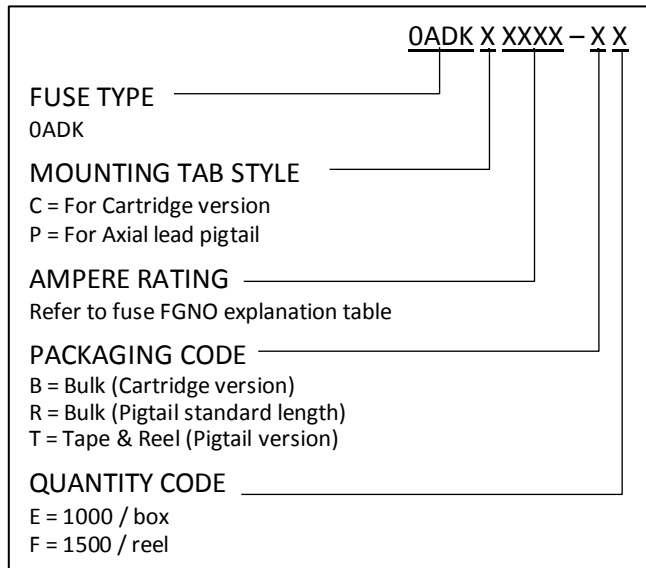
| Fraction | Decimal | Milliamps | Bel FGNO[XXXX] |
|----------|---------|-----------|----------------|
| 1/2 | 0.500 | 500 | 0500 |
| | .630 | 630 | 0630 |
| 8/10 | .800 | 800 | 0800 |

| Fraction | Decimal | Amps | Bel FGNO[XXXX] |
|----------|---------|------|----------------|
| | 1.0 | 1 | 1000 |
| 1-1/4 | 1.25 | 1.25 | 1250 |
| | 1.6 | 1.6 | 1600 |
| | 2.0 | 2 | 2000 |
| 2-1/2 | 2.5 | 2.5 | 2500 |
| | 3.15 | 3.15 | 3150 |
| | 4.0 | 4 | 4000 |
| | 5.0 | 5 | 5000 |
| | 6.3 | 6.3 | 6300 |
| | 8.0 | 8 | 8000 |
| | | 10 | 9100 |
| | | 12 | 9120 |
| | | 15 | 9150 |
| | | 16 | 9160 |
| | | 20 | 9200 |

Mechanical Dimensions



Ordering Information



Packaging

| Packaging Option | Quantity | Packaging Code |
|----------------------------|----------|----------------|
| Bulk (Cartridge Type) | 1000 | BE |
| Bulk (Pigtail Type) | 1000 | RE |
| Tape & Reel (Pigtail Type) | 1500 | TF |



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