

# ANTREX Electronics

## Electronic Components Sourcing Information

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### Product Reference Information

**Part Number:** 0ADKC1250-BE  
**Manufacturer:** Bel Fuse Inc.  
**Package:** Bulk  
**Availability:** Please confirm with sales

**Product Page:**

<https://antrexco.com/product/details/bel-fuse-inc/0adkc1250-be.html>

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New & Original Components

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**Note:**

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

# Type 0ADKC / 0ADKP

## Time-Delay, Ceramic Tube Fuse Series

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

RoHS Compliant

### Description

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<br>500mA–20A/500V DC<br>500mA–10A/400V DC | 500mA–20A/600V@200A AC<br>500mA–20A/500V@300A DC<br>500mA–10A/400V@2KA DC |
|  | B 058849 0020             | 1A–16A/500V AC/ DC                                          | 1A–10A/500V@500A AC<br>12A–16A/500V@200A AC<br>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

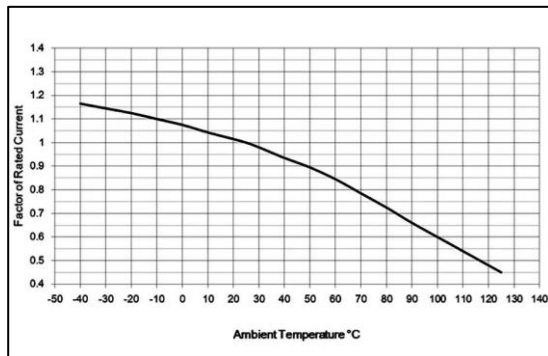
| Part Number  | Ampere Rating | Typical Cold Resistance (mOhms) | Voltage and Interrupting Ratings                                               | Typical Voltage Drop ( mV) | Typical Pre –Arcing I²t (A² Sec) | Agency Approvals                                                                    |                                                                                     |
|--------------|---------------|---------------------------------|--------------------------------------------------------------------------------|----------------------------|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |               |                                 |                                                                                |                            |                                  |  |  |
| 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

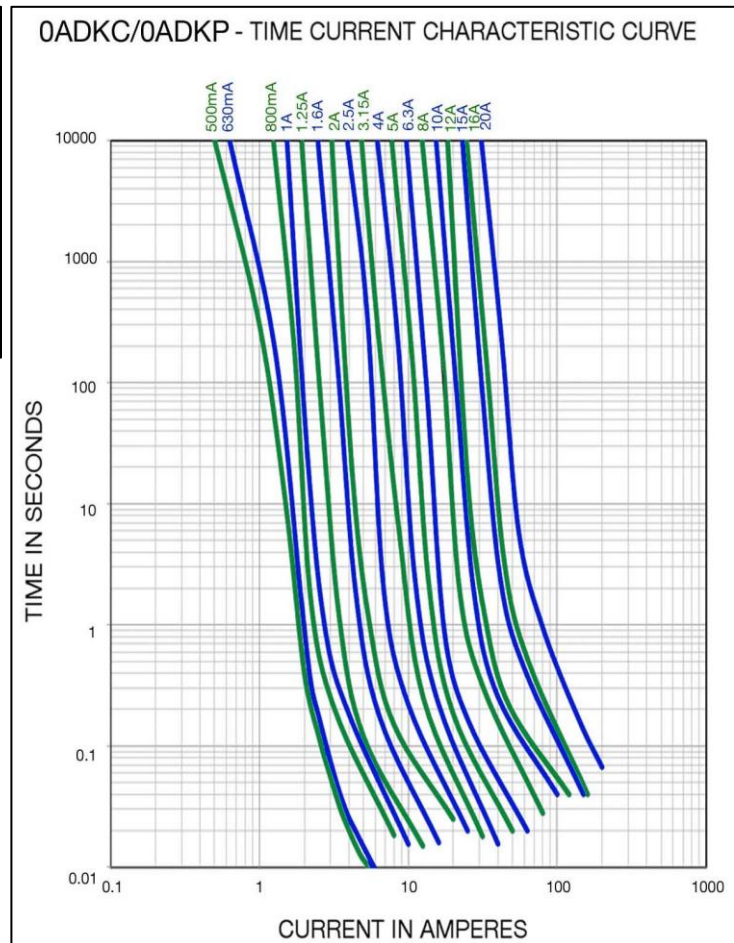
\*DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

\*Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current

## 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)

# Type 0ADKC /0ADKP

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## Fuse FGNO Explanation

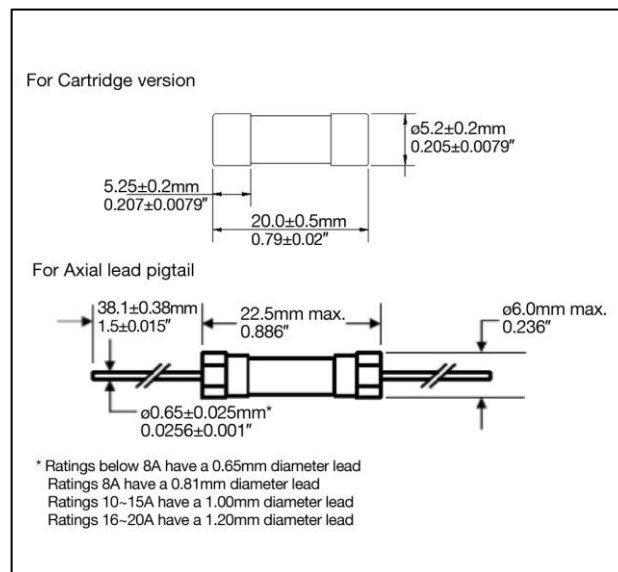
0ADK X [XXXX] -XX

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

0ADK X XXXX - X X

FUSE TYPE \_\_\_\_\_  
 0ADK

MOUNTING TAB STYLE \_\_\_\_\_  
 C = For Cartridge version  
 P = For Axial lead pigtail

AMPERE RATING \_\_\_\_\_  
 Refer to fuse FGNO explanation table

PACKAGING CODE \_\_\_\_\_  
 A = Ammo (10mm Pitch and 52mm & Pigtail length 16mm)  
 B = Bulk (Cartridge version)  
 R = Bulk (Pigtail length 38mm)

QUANTITY CODE \_\_\_\_\_  
 E = 1000 / box  
 P = 1000 / box (ammo pack)

## Packaging

| Packaging Option      | Quantity | Packaging Code | Inside Tape Spacing |
|-----------------------|----------|----------------|---------------------|
| Bulk (Cartridge Type) | 1000     | BE             | N/A                 |
| Bulk (Pigtail Type)   | 1000     | RE             | N/A                 |
| Box (Pigtail Type)    | 1000     | AP             | 10mm Pitch and 52mm |



Specifications subject to change without notice

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