

# Type 0ADKC / 0ADKP

## Time-Delay, Ceramic Tube Fuse Series

**HF** **Pb** 0ADKC/0ADKP Series, 5x20mm Ceramic Tube Time-Delay Fuse RoHS 2 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
- RoHS 2 compliant
- 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 | Voltage Rating (V)                                          | 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

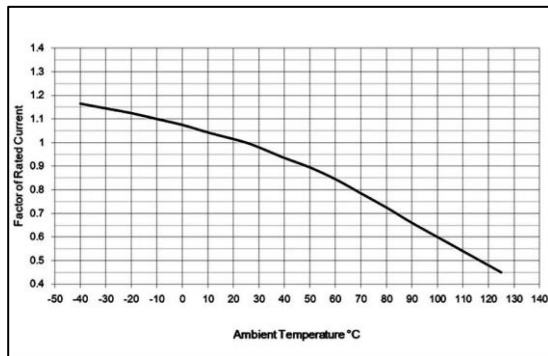
| Part Number  | Ampere Rating | Typical Cold Resistance (mOhms) | Voltage and Interrupting Ratings                                               | Typical Voltage Drop ( mV) | Typical Pre –Arcing I²t (A² Sec) | Agency Approvals                                                                    |   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

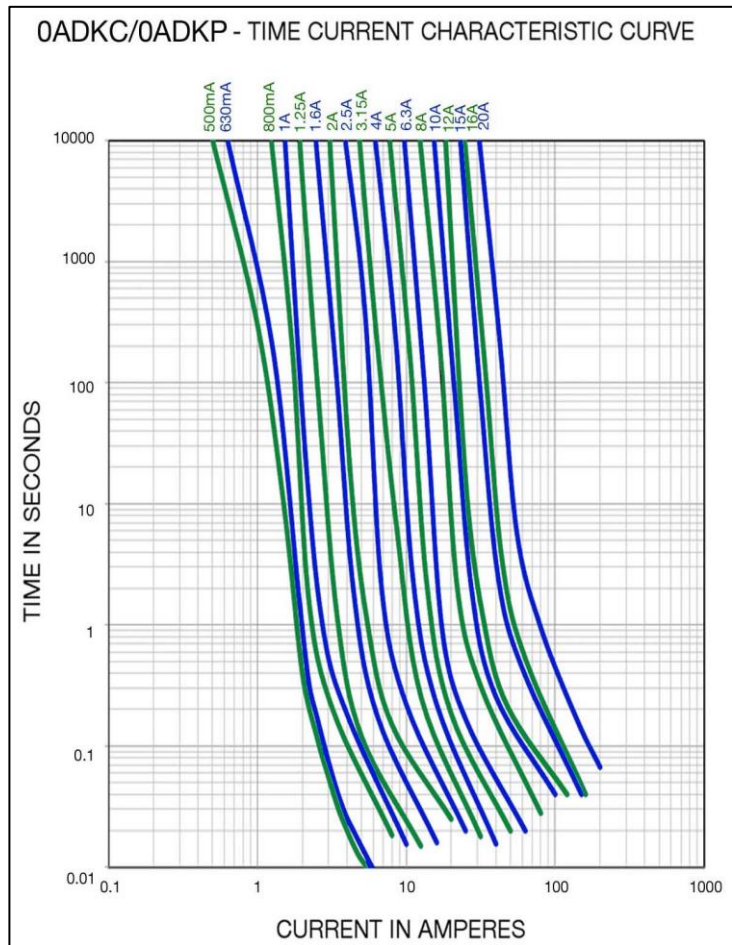
\*DC Cold Resistance are measured at &lt;10% of rated current in ambient temperature of 25°C

\*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

4 / 4

## Fuse FGNO Explanation

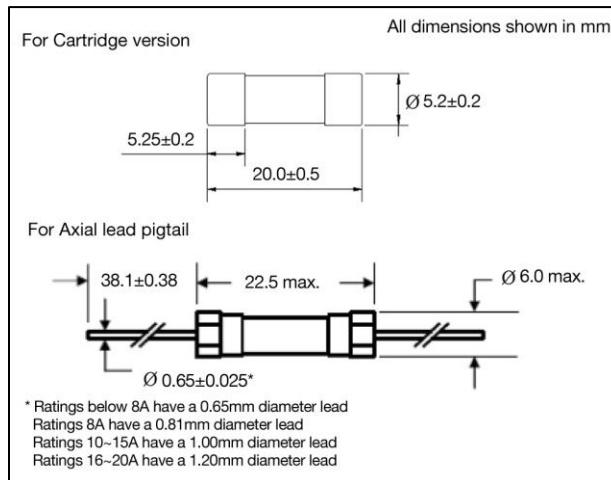
0ADK X [XXXX] -XX

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

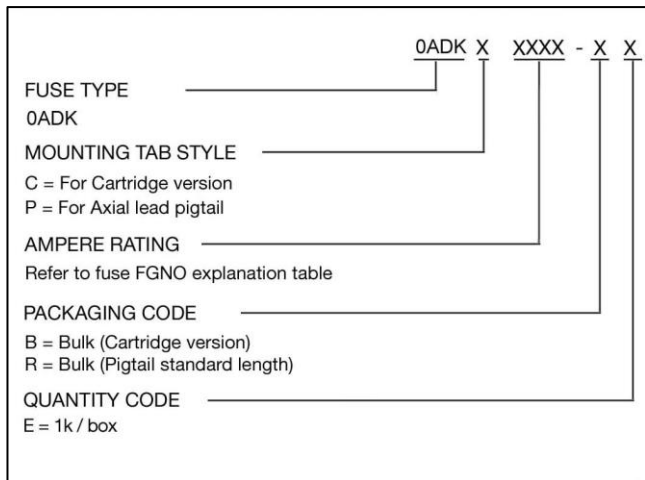
| Fraction | Decimal | Milliamps | Bel FGNO[XXXX] |
|----------|---------|-----------|----------------|
| 1/2      | 0.500   | 500       | 0500           |
|          | .630    | 630       | 0630           |
| 8/10     | .800    | 800       | 0800           |

| 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             |



Specifications subject to change without notice

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

+1 201.432.0463  
 Bel.US.CS@belf.com  
[belfuse.com/circuit-protection](http://belfuse.com/circuit-protection)

© 2019 Bel Fuse, Inc.

Rev. 0ADKC/0ADKP Jul2019



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.