

# CLASS CC KLDR SERIES FUSES

600 VAC • 300 VDC • Time-Delay • 1/10-30 A



## Description

KLDR fuses are time-delay fuses designed to protect control transformers, solenoids and similar inductive components with high magnetizing currents during the first half-cycle. They provide excellent protection of motor branch circuits containing IEC or NEMA rated motor controllers or contactors.

## Features/Benefits

- Meets UL and CSA standards
- Class CC fuses are the smallest 600 V, 200,000 A.I.R. fuses approved for branch circuit protection
- Rejection feature prevents use of fuses with lower interrupting ratings or voltage ratings when used with corresponding fuse holders
- Extremely current limiting reduces damage caused by heating and magnetic effects of short-circuit currents

## Applications

- Transformer Protection

## Specifications

|                            |                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Voltage Rating</b>      | AC: 600 V<br>DC: 300 V                                                                                        |
| <b>Amperage Rating</b>     | 1/10 – 30 A                                                                                                   |
| <b>Interrupting Rating</b> | AC: 200 kA rms symmetrical<br>DC: 20 kA                                                                       |
| <b>Material</b>            | Body: Melamine<br>Caps: Nickel-plated Bronze                                                                  |
| <b>Fuse Weight</b>         | .019 lb (8.62g)                                                                                               |
| <b>Approvals</b>           | AC: Standard 248-4, Class CC<br>UL Listed 1/10-30 A (File: E81895)<br>CSA Certified 1/10-30 A (File: LR29862) |
| <b>Environmental</b>       | DC: Littelfuse self-certified                                                                                 |
| <b>Country of Origin</b>   | RoHS Compliant<br>Mexico                                                                                      |

## Ordering Information

| AMPERAGE RATINGS |        |        |        |        |
|------------------|--------|--------|--------|--------|
| 1/10             | 6/10   | 1 8/10 | 4 1/2  | 10     |
| 1/8              | 3/4    | 2      | 5      | 12     |
| 15/100           | 8/10   | 2 1/4  | 5 6/10 | 15     |
| 3/16             | 1      | 2 1/2  | 6      | 17 1/2 |
| 2/10             | 1 1/8  | 2 8/10 | 6 1/4  | 20     |
| 1/4              | 1 1/4  | 3      | 7      | 25     |
| 3/10             | 1 4/10 | 3 2/10 | 7 1/2  | 30     |
| 4/10             | 1 1/2  | 3 1/2  | 8      | —      |
| 1/2              | 1 6/10 | 4      | 9      | —      |

| AMPERAGE | PART NUMBER | ORDERING NUMBER |
|----------|-------------|-----------------|
| 10       | KLDR 10     | KLDR010.TXP     |

## Web Resources

For additional informations, visit:

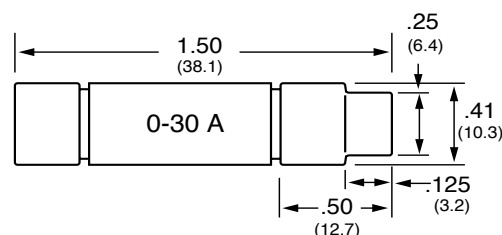
**Littelfuse.com/kldr**

## Recommended Fuse Holders

L60030C Series

LPSC Touch-Safe Series

## Dimensions Inches (mm)



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## Electrical Specifications

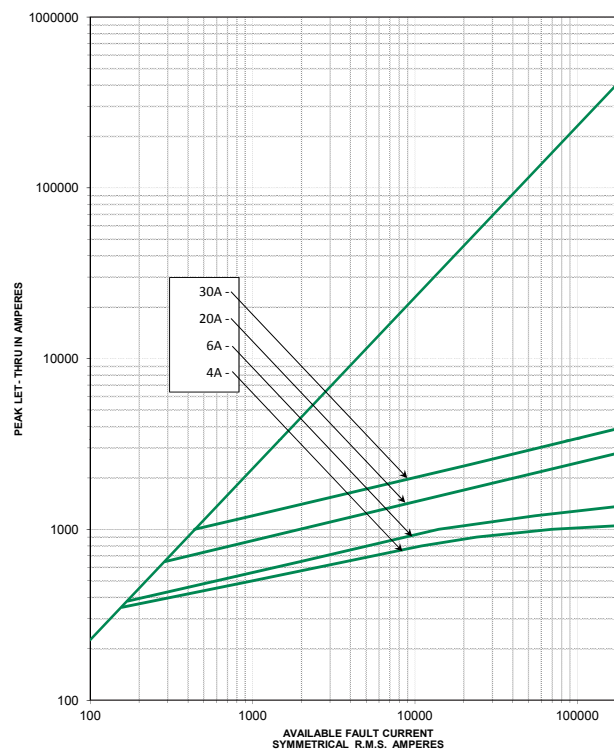
| ORDERING NUMBER | AMPERAGE RATING | VOLTAGE RATING |     | INTERRUPTING RATING |       | UPC         | WATTS LOSS AT 100% RATED CURRENT (W) | WATTS LOSS AT 80% RATED CURRENT (W) | TOTAL CLEARING I <sup>2</sup> T (A <sup>2</sup> SEC) 200 kA | AGENCY APPROVALS |     |      |
|-----------------|-----------------|----------------|-----|---------------------|-------|-------------|--------------------------------------|-------------------------------------|-------------------------------------------------------------|------------------|-----|------|
|                 |                 | AC             | DC  | AC                  | DC    |             |                                      |                                     |                                                             | UL               | CSA | RoHS |
| KLDR01.6TXP     | 1-6/10          | 600            | 300 | 200 kA              | 20 kA | 07945879252 | 3.56                                 | 1.40                                | 10                                                          | •                | •   | •    |
| KLDR004.TXP     | 4               | 600            | 300 | 200 kA              | 20 kA | 07945879261 | 1.88                                 | 1.10                                | 40                                                          | •                | •   | •    |
| KLDR07.5TXP     | 7-1/2           | 600            | 300 | 200 kA              | 20 kA | 07945879268 | 1.68                                 | 0.94                                | 1460                                                        | •                | •   | •    |
| KLDR020.TXP     | 20              | 600            | 300 | 200 kA              | 20 kA | 07945879275 | 2.30                                 | 1.39                                | 1700                                                        | •                | •   | •    |
| KLDR030.TXP     | 30              | 600            | 300 | 200 kA              | 20 kA | 07945879277 | 2.75                                 | 1.62                                | 1790                                                        | •                | •   | •    |

## Current-Limiting Effects

| SHORT CIRCUIT CURRENT* | APPARENT RMS SYMMETRICAL CURRENT FOR VARIOUS FUSE RATINGS |     |      |      |
|------------------------|-----------------------------------------------------------|-----|------|------|
|                        | 4 A                                                       | 6 A | 20 A | 30 A |
| 5,000                  | 315                                                       | 366 | 535  | 750  |
| 10,000                 | 355                                                       | 422 | 635  | 875  |
| 15,000                 | 380                                                       | 453 | 700  | 950  |
| 20,000                 | 395                                                       | 478 | 735  | 1000 |
| 25,000                 | 405                                                       | 492 | 800  | 1050 |
| 30,000                 | 415                                                       | 505 | 815  | 1125 |
| 35,000                 | 420                                                       | 515 | 840  | 1175 |
| 40,000                 | 427                                                       | 520 | 860  | 1200 |
| 50,000                 | 438                                                       | 538 | 910  | 1300 |
| 60,000                 | 440                                                       | 545 | 950  | 1350 |
| 80,000                 | 455                                                       | 555 | 1010 | 1400 |
| 100,000                | 460                                                       | 575 | 1075 | 1500 |
| 150,000                | 470                                                       | 600 | 1150 | 1600 |
| 200,000                | 478                                                       | 620 | 1250 | 1750 |

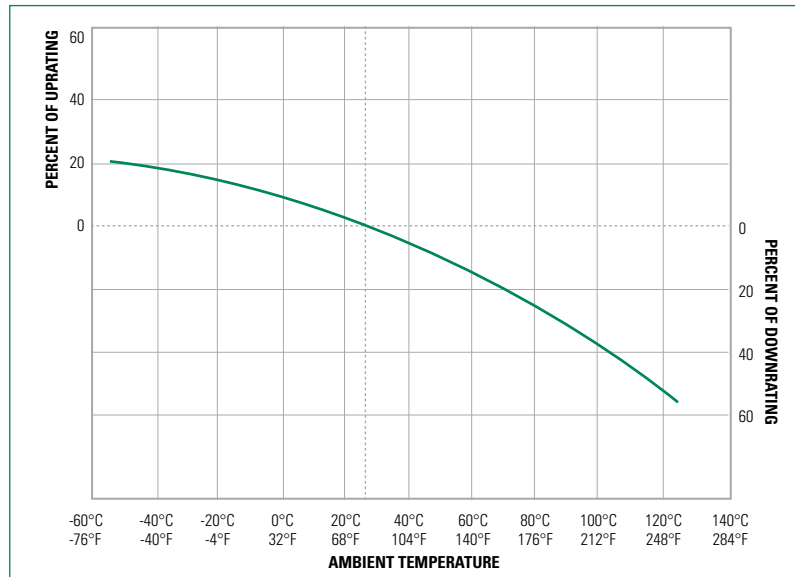
\*Prospective RMS Symmetrical Amperes Short-Circuit Current  
 Note: Data Derived from Peak Let-Thru Curves

## Peak Let-Thru Curve

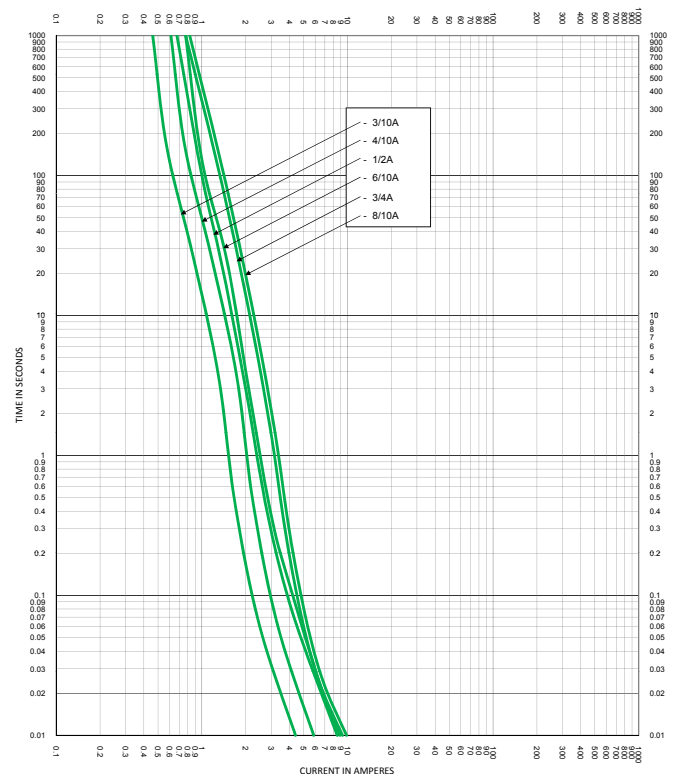
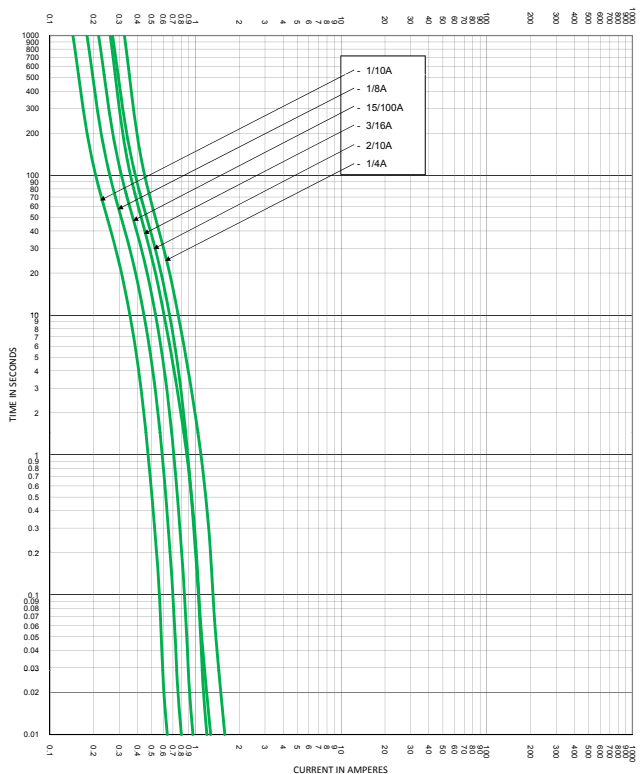


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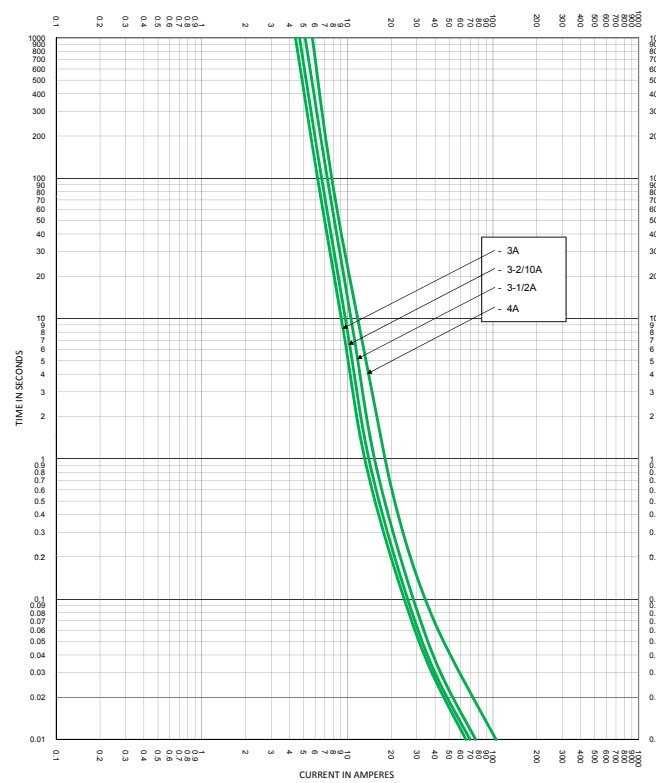
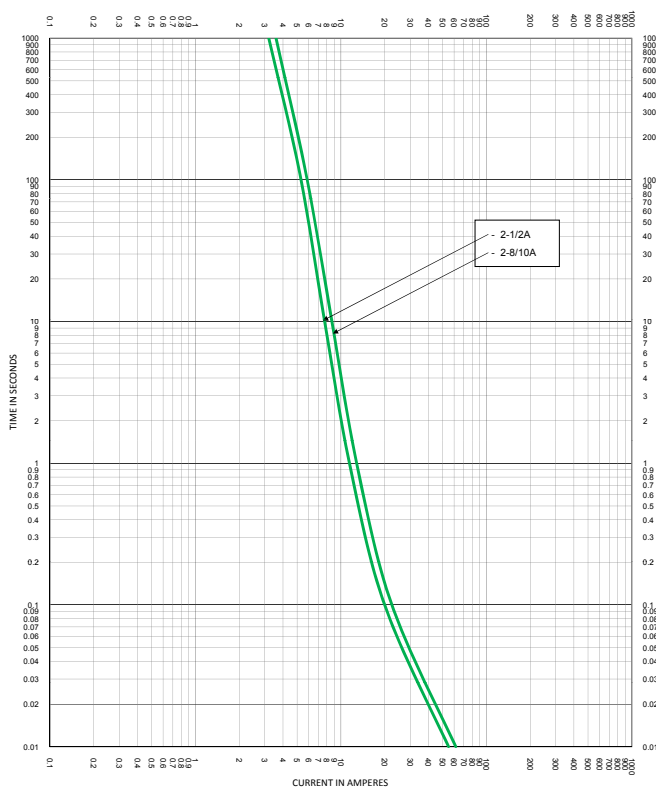
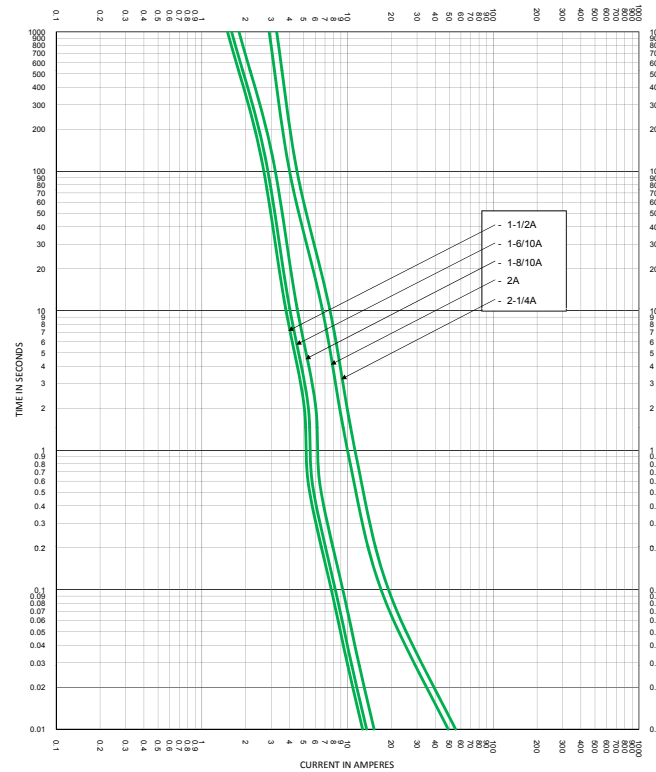
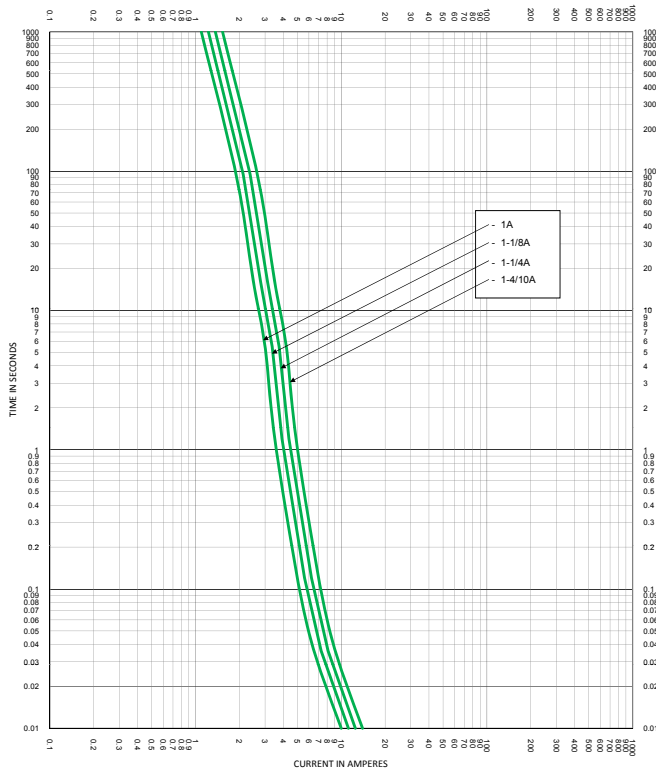
## Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



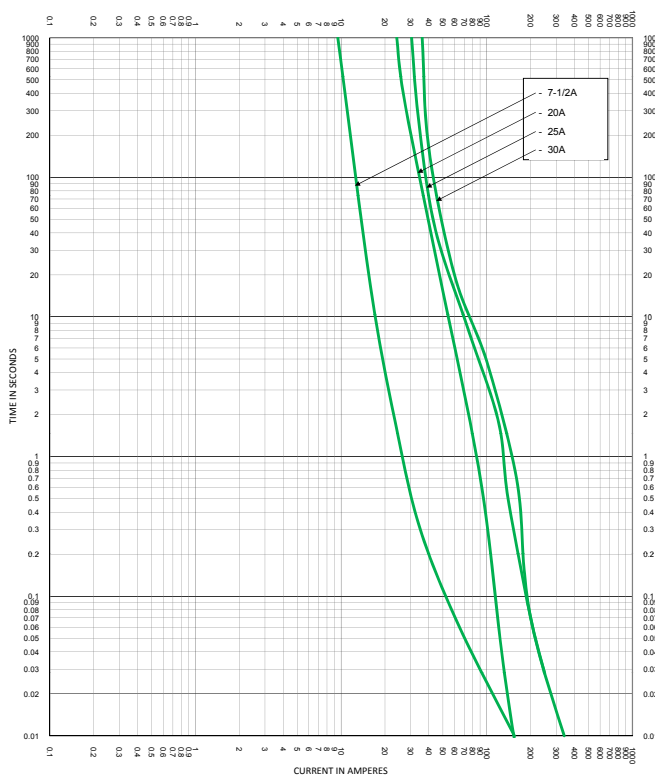
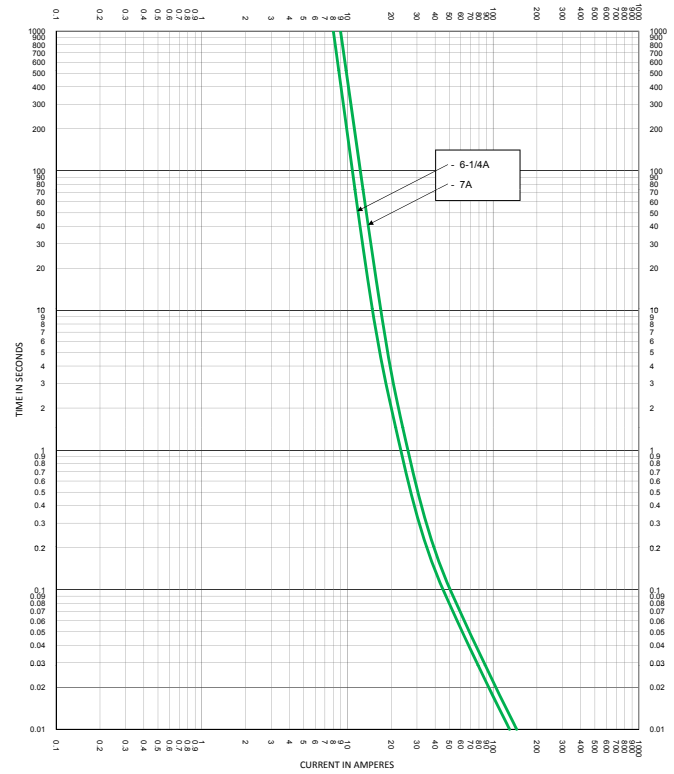
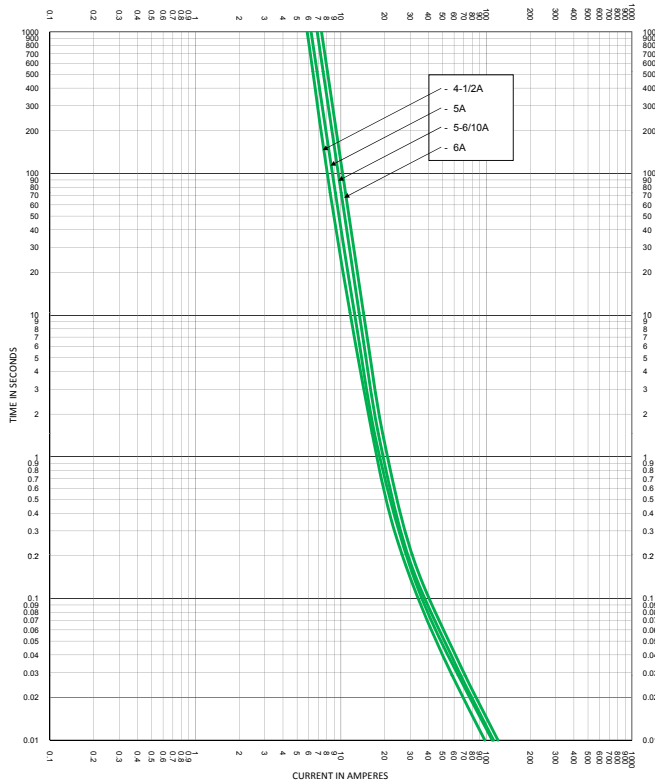
## Time Current Curves



## Time Current Curves



## Time Current Curves



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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