

CUSTOMER DRAWING



**FREE CONNECTOR
(HELIOS H4 ASSEMBLED)**



**FIXED CONNECTOR
(HELIOS H4 BULKHEAD - M12)**



**FIXED CONNECTOR
(HELIOS H4 BULKHEAD - M14)**

3. SPECIFICATIONS:

| CONTACT SIZE | 1.5mm ² /16AWG | 2.5mm ² /14AWG | 4mm ² /12AWG | 6mm ² /10AWG | 10mm ² /8AWG |
|-----------------------------|---|---------------------------|-------------------------|-------------------------|-------------------------|
| RATED CURRENT | 35A (UL) | | | | |
| | N/A | 32A (TUV) | 40A (TUV) | 44A (TUV) | 65A (TUV) |
| RATED SYSTEM VOLTAGE | 600V/1000V DC(UL) 1000V DC(TUV) | | | | |
| CONTACT RESISTANCE | 0.25mΩ TYP. | | | | |
| DEGREE OF PROTECTION, MATED | IP68(1m, 1h) | | | | |
| PIN CONTACT MATERIAL | COPPER, TIN PLATED | | | | |
| INSULATION MATERIAL | THERMOPLASTIC, UL94 V-0 | | | | |
| AMBIENT TEMPERATURE RANGE | -40°C TO +85°C | | | | |
| STRIP LENGTH | 7.0 mm | | | | |
| CABLE JACKET DIAMETER | 4.5 TO 7.8mm FOR TUV 1000V RATING 5.25 TO 7.7mm FOR UL 1000V RATING 5.25 TO 7.95mm FOR UL 600V RATING | | | | |

2. USE ONLY CRIMP TOOL AMPHENOL H4TC0002 TO CRIMP CONTACTS

1. THIS ASSEMBLY SHALL BE CERTIFIED RoHS COMPLIANT TO THE EUROPEAN UNION DIRECTIVE 2002/95/EC AS AMENDED PER 2005/618/EC.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED. HOWEVER, DOCUMENTS REFERENCED HEREON MAY CONTAIN LIMITED RIGHTS DATA.

| | |
|-----|---|
| N/A | PRO/ENGINEER INFORMATION |
| N/A | Pro/e Model Used: CPV-090508-M-ASSEM |
| N/A | Drawing Name: PV-1005X-000-SF-CUS |
| N/A | NEXT ASSEMBLY |

| UNLESS OTHERWISE SPECIFIED | SPECIFICATIONS | POS | QTY | PART NUMBER | DESCRIPTION | NOTE |
|--|-----------------------|------------------------|------------------------------|-------------|--|---------------------------|
| LINEAR DIMENSIONS ARE IN: MILLIMETERS TOLERANCES: ANGLES = ±2° DIM. & TOL. PER ASME Y14.5M-1994; DRM PER MIL-DTL-31000; OTHER AMPHENOL STANDARDS: 9-9318 LEGENDS: △ = FLAG NOTE CALL OUT REFERENCE ONLY | MATERIAL SPEC. N/A | APPROVALS | | DATE | PARTS LIST | |
| | PROCESS SPEC. N/A | PREPARED BY LEON LI | ENGINEER IN CHARGE | 2012-05-23 | AMPHENOL CORPORATION <small>40-60 DELAWARE AVENUE SIDNEY, N.Y. 13838</small> HELIOS H4 1000V/600V CONNECTOR ASSEMBLY | |
| | | DESIGN MANAGER | DESIGN ACTIVITY GROUP R&D | | SIZE C | CAGE CODE 77820 |
| | | THIRD ANGLE PROJECTION | | | DOCUMENT NO. H4C-() | REV. E |
| | | | | | SCALE: 1.0 | REF: - |
| | | | | | SHEET 1 OF 4 | |

**ORDER P/N:
H4CFC2DMS**

- (BLANK): COLD FORGING CONTACT
- S: STAMPING FORM CONTACT
- I: INDIVIDUAL PACKING WITH PE BAG (800PCS PER BOX)
- C: BULK PACK 100PCS WITH PE BAG (1000PCS PER BOX)
- M: BULK PACK 500PCS PER PE BAG (1000PCS PER BOX)
- D: TUV & UL APPROVAL
- 2: FOR 2.5mm²/14AWG CABLE (FOR C&F,
AND ALSO FOR 1.5 & 2.5mm²/16 & 14AWG S&F)
- 4: FOR 4.0mm²/12AWG CABLE (FOR C&F,
AND ALSO FOR 4.0 & 6.0mm²/12 & 10AWG S&F)
- 6: FOR 6.0mm²/10AWG CABLE (FOR C&F ONLY)
- 8: FOR 10.0mm²/8AWG CABLE (FOR C&F ONLY)
- C: CABLE GLAND (FREE CONN)
- M: BULKHEAD M12
- N: BULKHEAD M14
- F: FEMALE
- M: MALE

| REVISIONS | | |
|-----------|-----------------------------|------------|
| LTR | DESCRIPTION | DATE |
| A | INITIAL RELEASE | 2011-04-18 |
| B | MODIFY THE TOLERANCE | 2011-12-05 |
| C | ADD THE INTERFACE DIMENSION | 2011-12-14 |
| D | UPGRADE TO 1000V UL RATING | 2012-03-20 |
| E | UPDATE TUV MARK | 2012-05-23 |

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PRO/ENGINEER INFORMATION
Pro/e Model Used:
CPV-090508-M-ASSEM
Drawing Name:
PV-1005X-000-SF-CUS

UNLESS OTHERWISE SPECIFIED

SPECIFICATIONS

POS QTY PART NUMBER DESCRIPTION NOTE

FREE CONNECTOR (HELIOS H4 ASSEMBLED)



FIXED CONNECTOR (HELIOS H4 BULKHEAD - M12)



FIXED CONNECTOR (HELIOS H4 BULKHEAD - M14)



- 5. THE MARK OF LETTERS JUST THE VERSION OF THE PLASTIC PARTS FOR AMPHENOL'S MANUFACTURE PROCEDURE, WHEN THE CUSTOMER INSPECT THE PRODUCT, THEY CAN IGNORE THESE NUMBERS.
- 4. FLAT GASKET AND NUT SHOULD NOT BE ASSEMBLED TO THE BODY . SOCKET AND PIN SHOWN INSTALLED FOR REFERENCE ONLY.

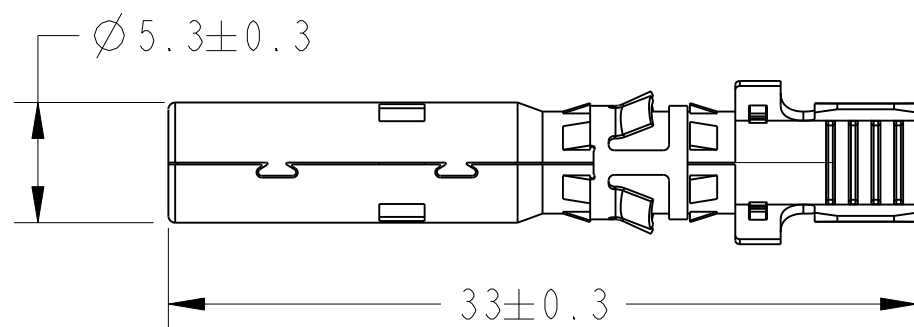
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| | | | |
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| SIZE C | CAGE CODE 77820 | DOCUMENT NO. H4C-() | REV. E |
| SCALE: 1.0 | REF: - | SHEET 2 OF 4 | |

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DOCUMENT NO. H4C-() REV. SHEET 2 OF 4

STAMPING & FORM CONTACT



SOCKET (FEMALE)



| | A (mm) |
|--------------------------|--------|
| 1.5 & 2.5mm ² | 4.8 |
| 4.0 & 6.0mm ² | 5.8 |



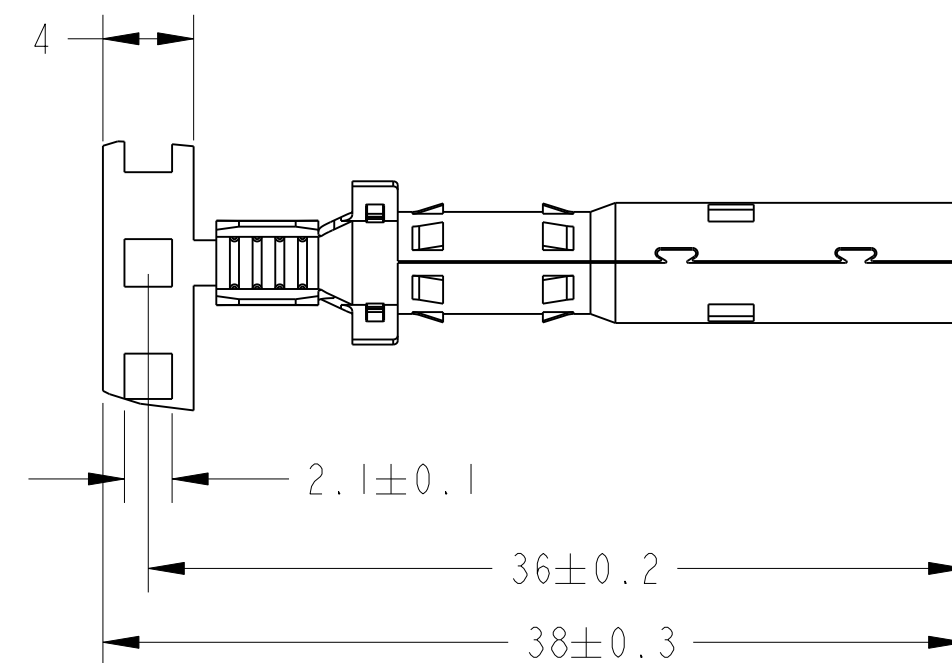
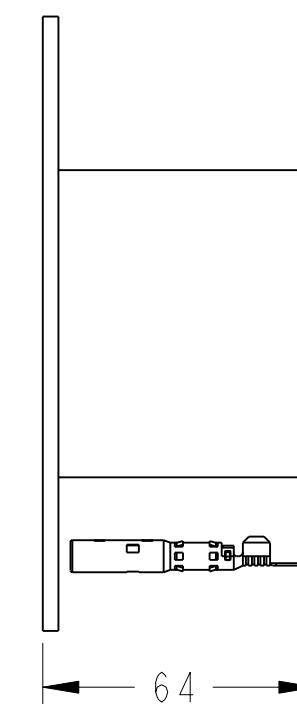
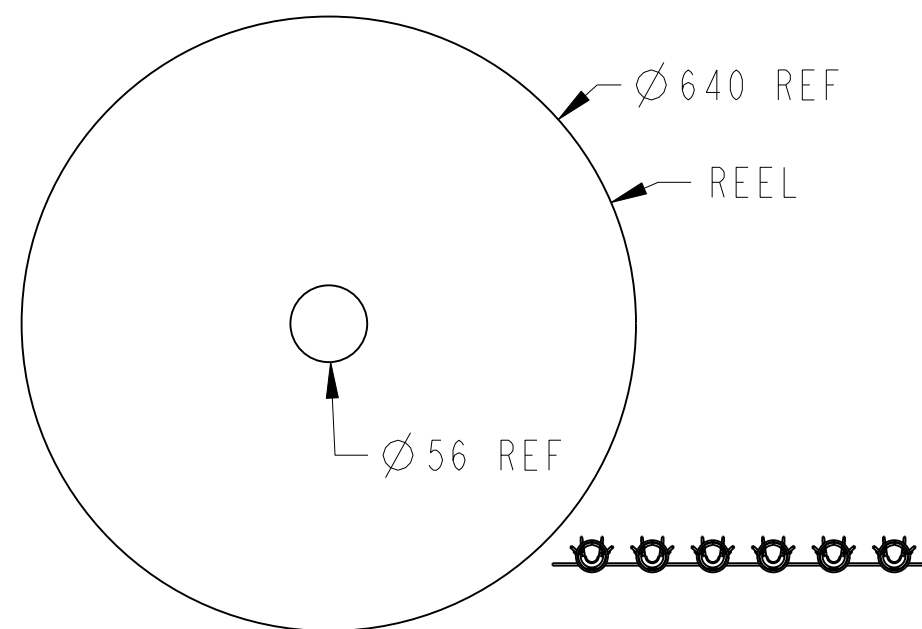
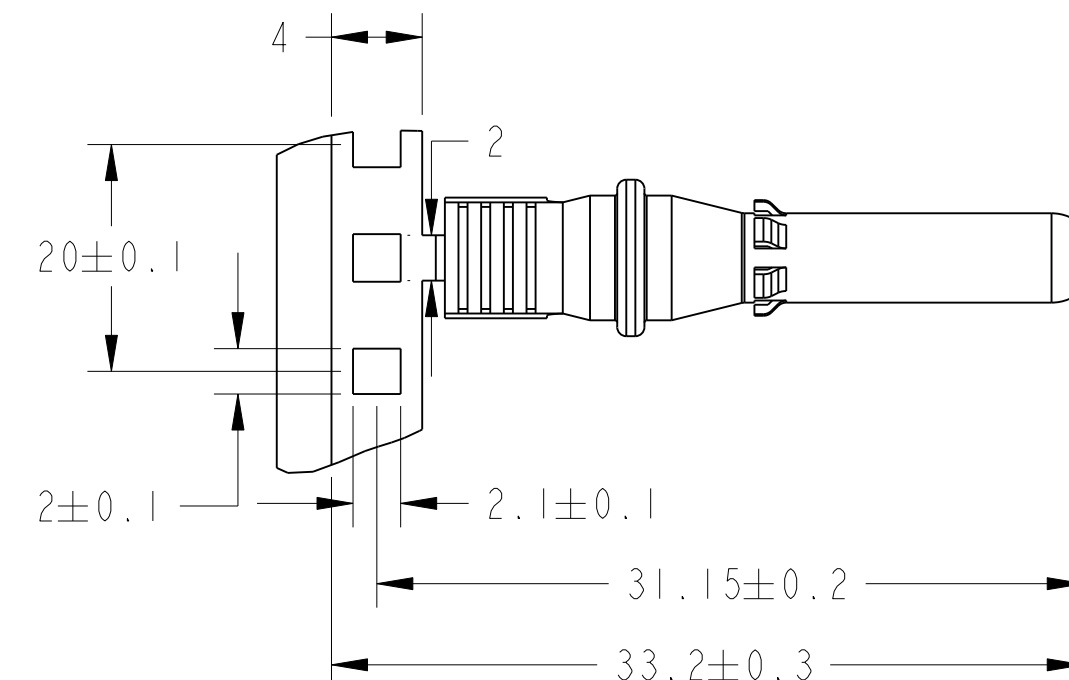
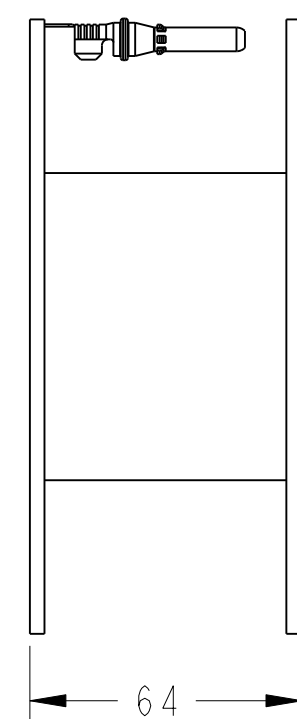
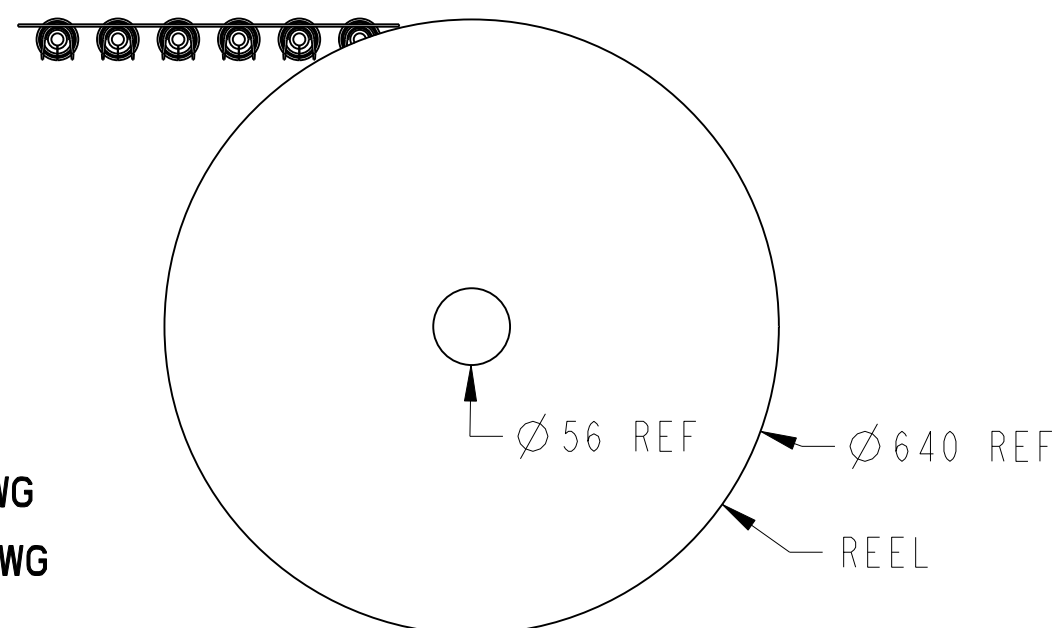
PIN (MALE)



ORDER P/N FOR CONTACTS REEL & PACKING INFO

H4FF4R

- R: 2000PCS PER REEL
- 2: CABLE SIZE: 1.5 & 2.5mm²/16 & 14AWG
- 4: CABLE SIZE: 4.0 & 6.0mm²/12 & 10AWG
- F: FOR FEMALE
- M: FOR MALE
- F: STAMPING FORM CONTACTS



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| | | | |
|------------|-----------------|----------------------|--------|
| SIZE C | CAGE CODE 77820 | DOCUMENT NO. H4C-() | REV. E |
| SCALE: 1.0 | REF: - | SHEET 3 OF 4 | |

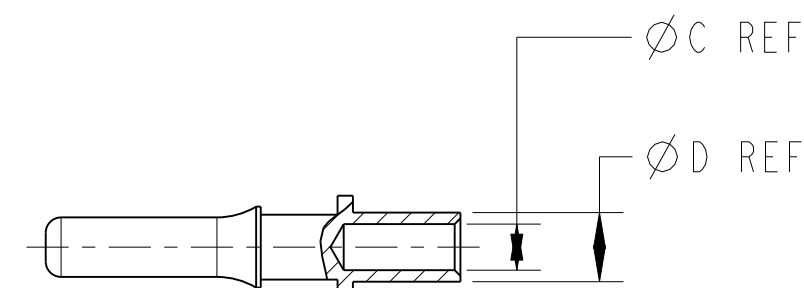
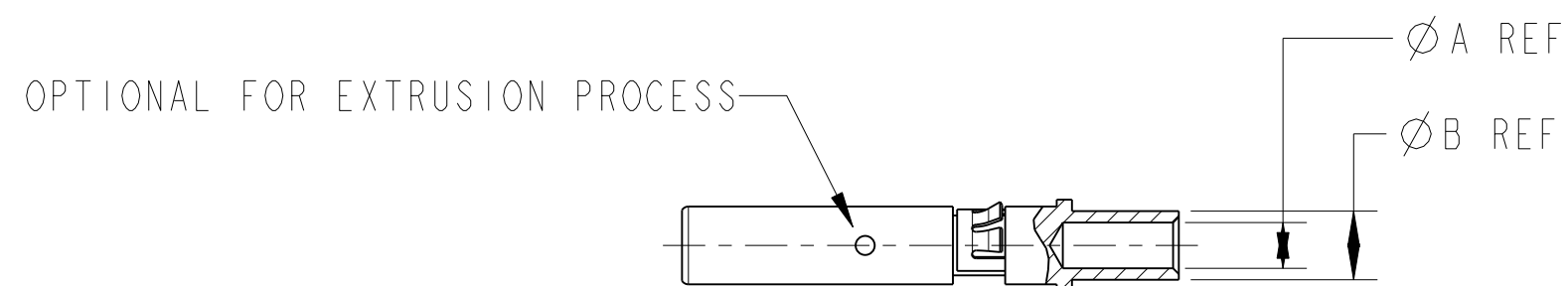
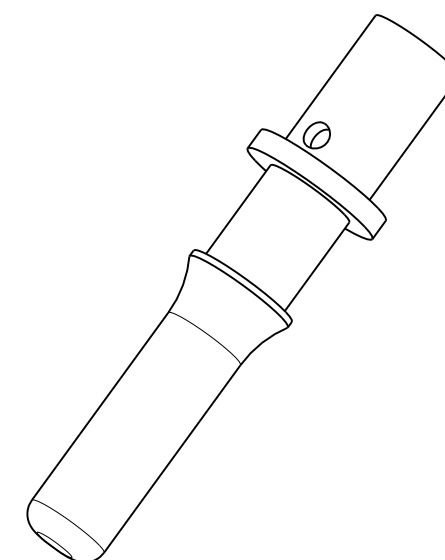
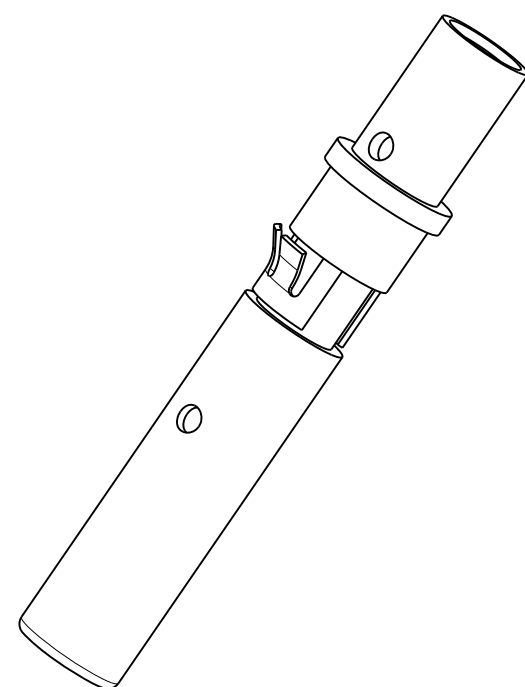
COLD FORGING CONTACT

DOCUMENT NO.
H4C-()

SHEET 4 OF 4

REV.
E

C



SOCKET (FEMALE)

PIN (MALE)

| ACCEPT WIRE CONDUCTOR SIZE mm ² (AWG) | "A" | "B" |
|---|------|------|
| 2.5 (14) | 2.30 | 3.51 |
| 4.0 (12) | 3.05 | 4.57 |
| 6.0 (10) | 3.76 | 6.00 |
| 10.0(8) | 4.50 | 6.00 |

| ACCEPT WIRE CONDUCTOR SIZE mm ² (AWG) | "C" | "D" |
|---|------|------|
| 2.5 (14) | 2.30 | 3.51 |
| 4.0 (12) | 3.05 | 4.57 |
| 6.0 (10) | 3.76 | 6.00 |
| 10.0(8) | 4.50 | 6.00 |

B

A

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| | | | |
|------------|-----------|--------------|------|
| SIZE | CAGE CODE | DOCUMENT NO. | REV. |
| C | 77820 | H4C-() | E |
| SCALE: 1.0 | REF: - | SHEET 4 OF 4 | |

REV.
E

SHEET 4 OF 4

DOCUMENT NO.
H4C-()

A



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

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