

**Amphenol Pcd**

**PEGASUS SERIES**  
GUIDE 2018



# PEGASUS SERIES

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## Description:

The Pegasus Series is Amphenol PCD's latest innovation in small, lightweight, rugged connectors. Designed for use in harsh environments, Pegasus builds on the successful Luminus Aerospace connector with the addition of EMI shielding. EMI shielding is provided by electroless copper and nickel plate, with a copper alloy spring finger gasket to ensure shell to shell conductivity. Tests show between 40db and 60db of attenuation, depending on frequency. This combination of light weight, small size, and EMI shielding makes Pegasus the ideal choice where protection against ambient noise transients, or suppression of emitted noise is required, and space and weight are at a premium.

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## Features and Benefits:

Electroless Copper & Nickel plating- Shielding from ambient noise transients, suppression of emitted noise (DO-160G Section 21 categories B, L and M and DO-160G Section 20 categories S & T)

1/4 turn bayonet style connection- Simple and easy mate & unmate. Blind mate keying

Interfacial and Triple-Barrier Seal- Environmental sealing to IP67

Multiple Configurations-Inline, Square Flange, Oval Flange, Jamnut PCB, Circular Snap-In

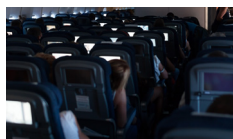
Scoop-Proof- Prevents contacts from being bent or electrically shorted during mating

Stainless Steel Contact Retainers- High contact retention force over operating life cycle

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## Typical Applications:

- Aviation & vehicle actuators
- Missile guidance & control systems
- Avionics sensors
- UAV control systems

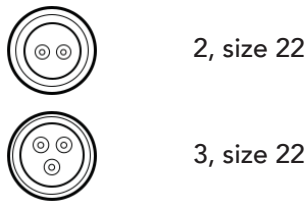


# PEGASUS SERIES

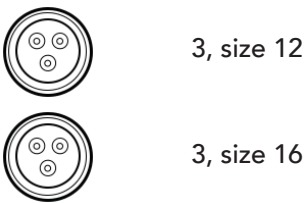
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## Shell Size

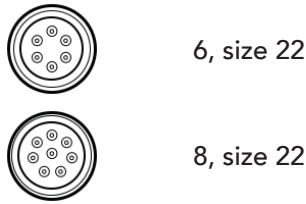
05 (max dia: 0.318)



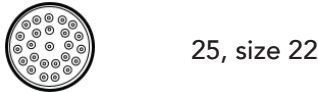
11 (max dia: 0.700)



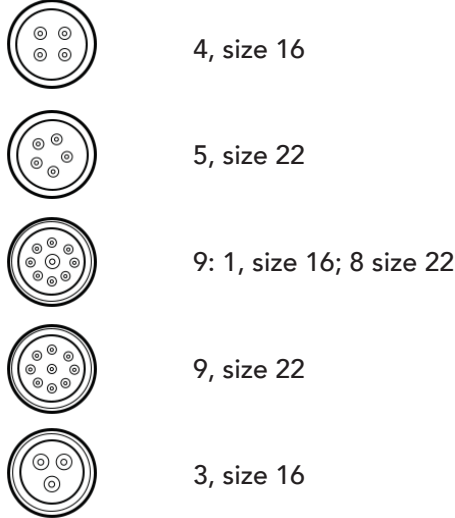
07 (max dia: 0.448)



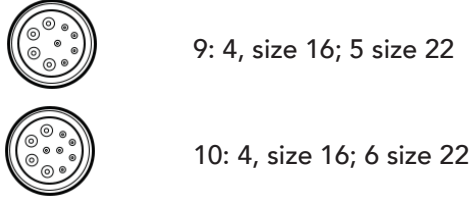
14 (max dia: 0.875)



08 (max dia: 0.528)



10 (max dia: 0.630)



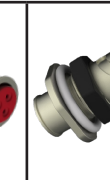
# PEGASUS SERIES

## Materials and Specifications

|                                                      | Twist & Lock                                                                                     |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Materials                                            | Insulator Body: Ultem / Polyetherimide                                                           |
|                                                      | Grommet & Face Seal: Silicone Rubber                                                             |
|                                                      | Contact Retainer: Stainless Steel                                                                |
|                                                      | Plating: Nickel over Copper                                                                      |
| Temperature Range                                    | -65°C to 125°C                                                                                   |
| Temperature Life                                     | 500 hours @ 85°C                                                                                 |
| Insulation Resistance                                | 5000 MΩ Min. @ 500 VDC                                                                           |
| Dielectric Withstanding                              | 1500 VAC, 60 Hz @ Sea Level, 1ma                                                                 |
|                                                      | 300 VAC, 60 Hz @ 70,000 ft, 2ma                                                                  |
| Durability                                           | Min 100 mating cycles; 250 typical                                                               |
| Altitude Immersion                                   | 5% salt solution, 75k feet                                                                       |
| Temperature Cycling                                  | 5(1) Hour Cycles: -65°C to 125°C                                                                 |
| Thermal Shock                                        | -65°C to 200°C                                                                                   |
| Vibration                                            | 30G Sinusoidal; 43.96G Random                                                                    |
| Shock                                                | 300G, 3msec, Half-Sine                                                                           |
| Housing Electrical Conductivity                      | 6 milliohm                                                                                       |
| EMI Shielding Effectiveness                          | 65db @ 100Mhz<br>60db @ 200Mhz<br>55db @ 300Mhz<br>55db @ 400Mhz<br>45db @ 800Mhz<br>45db @ 1Ghz |
| Salt Spray                                           | 5% Salt Spray @ 95°C for 48 Hours                                                                |
| Humidity                                             | 10 Days @ 25°C to 65°C,<br>90% - 95% RH                                                          |
| Fluid Immersion                                      | Lubricating Oil per Mil-Prf-7808                                                                 |
|                                                      | Cleaning Compound per Mil-Prf-87937, Alkaline Base                                               |
|                                                      | Isopropyl Alcohol & Mineral Spirit Solution                                                      |
|                                                      | Skydrol Hydraulic Fluid                                                                          |
|                                                      | Hydraulic Fluids per MIL-PRF-83282<br>MIL-PRF-87257                                              |
|                                                      | Ethylene Glycol                                                                                  |
|                                                      | Propylene Glycol                                                                                 |
|                                                      | Aviation Jet A                                                                                   |
| Seal Rating                                          | IP67                                                                                             |
| Flammability                                         | UL94, V0.                                                                                        |
|                                                      | DOTG section 26.6.2 & 26.6.3                                                                     |
|                                                      | FAR Part 25 App F Part I                                                                         |
| RoHS & REACH Compliance                              | Yes                                                                                              |
| Contact Insertion & Removal Force<br>(not to exceed) | less than 3 lbs                                                                                  |
|                                                      | less than 5 lbs insert (sz22)                                                                    |
|                                                      | less than 4lb remove (sz22)                                                                      |
|                                                      | less than 12lbs insert (sz 16)                                                                   |
|                                                      | less than 12lbs remove (sz 16)                                                                   |
|                                                      | greater than 10lbs                                                                               |
|                                                      | less than 10lbs, sz 22                                                                           |
|                                                      | less than 25lbs, sz 16                                                                           |
| Coupling Torque                                      | less than 5lbs                                                                                   |

# PEGASUS SERIES

## Part Numbering (Twist & Lock)

|                |              |            |     |        |  |  |  |  |  |  |  |
|----------------|--------------|------------|-----|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| # of Positions | Contact Size | Shell Size | Key | Color  | Plug P/N                                                                          | Inline Receptacle P/N                                                             | Circular Receptacle P/N                                                            | Square Receptacle PN                                                                | Jam Nut Stand-Off Receptacle PN                                                     | Oval Receptacle PN                                                                  | Jam Nut Rear Mount Receptacle PN                                                    |
| 2              | 22D          | 5          | -   | black  | SJS830250P                                                                        | SJS830270P                                                                        | -                                                                                  | -                                                                                   | -                                                                                   | SJS502170P                                                                          | SJS502190P                                                                          |
| 3              | 22D          | 5          | -   | black  | SJS830210P                                                                        | SJS830230P                                                                        | -                                                                                  | -                                                                                   | -                                                                                   | SJS503170P                                                                          | SJS503190P                                                                          |
| 3              | 20           | 7          | -   | white  | SJS862300P                                                                        | SJS862400P                                                                        | -                                                                                  | SJS862450P                                                                          | -                                                                                   | -                                                                                   | -                                                                                   |
| 3              | 16           | 8          | A   | white  | SJS840310P                                                                        | SJS840300P                                                                        | SJS840320P                                                                         | SJS830730P                                                                          | -                                                                                   | -                                                                                   | -                                                                                   |
| 3              | 16           | 8          | B   | black  | SJS840340P                                                                        | SJS840350P                                                                        | SJS840330P                                                                         | SJS830130P                                                                          | -                                                                                   | -                                                                                   | -                                                                                   |
| 3              | 12           | 10         | -   |        | SJS003110P*                                                                       | SJS003120P*                                                                       | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 4              | 16           | 8          | A   | white  | SJS840410P                                                                        | SJS840400P                                                                        | SJS840420P                                                                         | SJS840740P                                                                          | SJS840760P                                                                          | -                                                                                   | SJS840790P                                                                          |
| 4              | 16           | 8          | B   | white  | SJS840440P                                                                        | SJS840450P                                                                        | SJS840430P                                                                         | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 4              | 20           | 7          |     | black  | SJS704110P                                                                        | SJS704120P                                                                        |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 5              | 22D          | 8          | -   | white  | SJS860510P                                                                        | SJS860500P                                                                        | SJS860520P                                                                         | SJS805730P                                                                          | -                                                                                   | -                                                                                   | -                                                                                   |
| 5              | 22D          | 8          | -   | white  | SJS870510P                                                                        | -                                                                                 | SJS870520P                                                                         | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 6              | 22D          | 7          | -   | black  | SJS861700P                                                                        | SJS861800P                                                                        | -                                                                                  | -                                                                                   | SJS706160P                                                                          | -                                                                                   | -                                                                                   |
| 8              | 22D          | 7          | A   | black  | SJS830100P                                                                        | SJS830200P                                                                        | -                                                                                  | SJS830220P                                                                          | SJS708160P                                                                          | SJS708190P                                                                          | SJS708180P                                                                          |
| 8              | 22D          | 7          | B   | green  | SJS830101P                                                                        | SJS830201P                                                                        | -                                                                                  | SJS830221P                                                                          | -                                                                                   | -                                                                                   | -                                                                                   |
| 8              | 22D          | 7          | C   | yellow | SJS830102P                                                                        | SJS830202P                                                                        | -                                                                                  | SJS830222P                                                                          | -                                                                                   | -                                                                                   | -                                                                                   |
| 9              | 22D          | 8          | -   | black  | SJS862100P                                                                        | SJS862200P                                                                        | -                                                                                  | SJS809130P                                                                          | -                                                                                   | -                                                                                   | -                                                                                   |
| 12             | 22D          | 8          | -   | white  | SJS861300P                                                                        | SJS861400P                                                                        | -                                                                                  | SJS812730P                                                                          | SJS812760P                                                                          | -                                                                                   | -                                                                                   |
| 12             | 22D          | 11         | A   | black  | SJS112110P                                                                        | SJS112120P                                                                        | -                                                                                  | -                                                                                   | SJS112160P                                                                          | -                                                                                   | -                                                                                   |
| 12             | 22D          | 11         | B   |        | SJS112210P                                                                        | SJS112220P                                                                        | -                                                                                  | -                                                                                   | SJS112260P                                                                          | -                                                                                   | -                                                                                   |
| 12             | 22D          | 11         | C   |        | SJS112310P                                                                        | SJS112320P                                                                        | -                                                                                  | -                                                                                   | SJS112360P                                                                          | -                                                                                   | -                                                                                   |
| 12             | 22D          | 11         | D   |        | SJS112410P                                                                        | SJS112420P                                                                        | -                                                                                  | -                                                                                   | SJS112460P                                                                          | -                                                                                   | -                                                                                   |
| 25             | 22D          | 14         | A   | black  | SJS425110P                                                                        | SJS425120P                                                                        | -                                                                                  | -                                                                                   | SJS425160P                                                                          | -                                                                                   | -                                                                                   |
| 25             | 22D          | 14         | B   |        | SJS425210P                                                                        | SJS425220P                                                                        | -                                                                                  | -                                                                                   | SJS425260P                                                                          | -                                                                                   | -                                                                                   |
| 25             | 22D          | 14         | C   |        | SJS425310P                                                                        | SJS425320P                                                                        | -                                                                                  | -                                                                                   | SJS425360P                                                                          | -                                                                                   | -                                                                                   |
| 25             | 22D          | 14         | D   |        | SJS425410P                                                                        | SJS425420P                                                                        | -                                                                                  | -                                                                                   | SJS425460P                                                                          | -                                                                                   | -                                                                                   |
| 12             | 16           | 14         | -   |        | SJS412110P"                                                                       | SJS412120P"                                                                       | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 9              | 16 (1)       | 8          | -   | white  | SJS860100P                                                                        | SJS860200P                                                                        | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                | 22D (8)      |            |     |        |                                                                                   |                                                                                   |                                                                                    | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 9              | 16 (4)       | 10         | -   | white  | SJS860910P                                                                        | SJS860900P                                                                        | -                                                                                  | SJS0AA730P                                                                          | -                                                                                   | -                                                                                   | -                                                                                   |
|                | 22D (5)      |            |     |        |                                                                                   |                                                                                   |                                                                                    | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 10             | 16 (4)       | 10         | -   | white  | SJS861100P*                                                                       | SJS861200P*                                                                       | SJS0AB730P                                                                         | -                                                                                   | -                                                                                   | SJS0AB770P                                                                          | -                                                                                   |
|                | 22D (6)      |            |     |        |                                                                                   |                                                                                   |                                                                                    | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
| 1              | Quadrax      | 8          | -   |        | SJS801110P                                                                        | SJS801120P                                                                        | -                                                                                  | SJS801130P*                                                                         | SJS801160P*                                                                         | SJS801170P*                                                                         | SJS80119P*                                                                          |
| 5              | 12 (3)       | 11         | -   | black  | SJS1AE110P*                                                                       | SJS1AE120P*                                                                       | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |
|                | 22 (2)       |            |     |        |                                                                                   |                                                                                   | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                   |

\*Available at extended lead time.

# PEGASUS SERIES

## Part Numbering (Accessories)

|            |  |  |  |  |  |  |  |  |  |  |  |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Shell Size | Strain Relief Single                                                              | Strain Relief Single 90°                                                          | Strain Relief Single 45°                                                          | Double Strain Relief                                                              | Double Side Tape Mount Cradle                                                     | Screw Mount Cradle                                                                | Tube Mount Cradle                                                                  | Single Side Tape Tube Mount Cradle                                                  | Double Side Tape Tube Mount Cradle                                                  | Dummy Flanges                                                                       | Hard Protective Caps                                                                |
| 5          | SJSA55000                                                                         | SJSAA5100                                                                         | SJSAA5200                                                                         | SJSA56000                                                                         | SJS257000                                                                         | SJS257100                                                                         | SJSA5V000                                                                          | SJS5AV010                                                                           | SJS5AV020                                                                           | -                                                                                   | SJSA5B000                                                                           |
| 7          | SJS450350                                                                         | SJSA75100                                                                         | SJSA75200                                                                         | SJSA76000                                                                         | SJS883000                                                                         | SJS450250                                                                         | SJSA7V000                                                                          | SJSA7V010                                                                           | SJSA7V020                                                                           | SJS830220D                                                                          | SJSA7B000                                                                           |
| 8          | SJSA85000                                                                         | SJSA85100                                                                         | SJSA85200                                                                         | SJSA86000                                                                         | SJS445000                                                                         | SJS450100                                                                         | SJSA8V000                                                                          | SJSA8V010                                                                           | SJSA8V020                                                                           | -                                                                                   | SJSA8B000                                                                           |
| 10         | SJSA05000                                                                         | SJSA05100                                                                         | SJSA05200                                                                         | SJSA06000                                                                         | SJS991000                                                                         | -                                                                                 | SJSA0V000                                                                          | SJSA0V010                                                                           | SJSA0V020                                                                           | SJS0AA730D                                                                          | SJSA0B000                                                                           |

## Contact Matrix

| Contact Size | Contact Style | Available |            | Contact P/N |                  | QPL Part No.<br>(Machined Only) | Contact Retention             | Crimp Tensile Strength |
|--------------|---------------|-----------|------------|-------------|------------------|---------------------------------|-------------------------------|------------------------|
|              |               | Push-Pull | Twist-Lock | Machined    | Stamped & Formed |                                 |                               |                        |
| 12           | Pin           | Yes       | Yes        | CNP058365   | SCP058365        | M39029/58-365                   | .012" [0,30mm] @ 30lbf [133N] | 100lbf [445N]          |
|              | Socket        | No        | Yes        | CNS057359   | SCS057359        | M39029/57-359                   |                               |                        |
|              | Socket-L      | Yes       | No         | CNS056353   | n/a              | M39029/56-353                   |                               |                        |
| 16           | Pin           | Yes       | Yes        | CNP058364   | SCP058364        | M39029/58-364                   | .012" [0,30mm] @ 25lbf [111N] | 40lbf [180N]           |
|              | Socket        | No        | Yes        | CNS057358   | SCS057358        | M39029/57-358                   |                               |                        |
|              | Socket-L      | Yes       | No         | CNS056352   | n/a              | M39029/56-352                   |                               |                        |
| 20           | Pin           | Yes       | Yes        | CNP058363   | SCP058363        | M39029/58-363                   | .012" [0,30mm] @ 20lbf [90N]  | 20lbf [90N]            |
|              | Socket        | No        | Yes        | CNS057357   | SCS057357        | M39029/57-357                   |                               |                        |
|              | Socket-L      | Yes       | No         | CNS056351   | n/a              | M39029/56-351                   |                               |                        |
| 22D          | Pin           | No        | Yes        | CNP058360   | n/a              | M39029/58-360                   | .012" [0,30mm] @ 10lbf [44N]  | 10 lbf [45N]           |
|              | Socket        | No        | Yes        | CNS057354   | n/a              | M39029/57-354                   |                               |                        |

| Contact Size | Wire Accommodations |                        |                              |                              | Tool Information           |                                                 |                        |
|--------------|---------------------|------------------------|------------------------------|------------------------------|----------------------------|-------------------------------------------------|------------------------|
|              | Size (AWG)          | Max Current Rating (A) | ØD Range                     | Strip Length                 | Basic Tool                 | Positioner                                      | Insertion/Removal Tool |
| 12           | 12                  | 23                     | .097 - .142" [2,46 - 3,61mm] | .209 - .240" [5,31 - 6,10mm] | M22520/1-01                | M22520/1-04 (Yellow)                            | M81969/14-04           |
|              | 14                  | 17                     |                              |                              |                            |                                                 |                        |
| 16           | 16                  | 13                     | .065 - .109" [1,65 - 2,77mm] | .209 - .240" [5,31 - 6,10mm] | M22520/1-01                | M22520/1-04 (Blue)<br>M22520/7-04               | M81969/14-03           |
|              | 18                  | 10                     |                              |                              | M22520/7-01                |                                                 |                        |
|              | 20                  | 7.5                    |                              |                              |                            |                                                 |                        |
| 20           | 20                  | 7.5                    | .040 - .083" [1,02 - 2,11mm] | .209 - .240" [5,31 - 6,10mm] | M22520/1-01                | M22520/1-04 (Red)<br>M22520/2-10<br>M22520/7-08 | M81969/14-11           |
|              | 22                  | 5                      |                              |                              | M22520/2-01                |                                                 |                        |
|              | 24                  | 3                      |                              |                              | M22520/7-01                |                                                 |                        |
| 22D          | 22                  | 5                      | .030 - .054" [0,76 - 1,37mm] | .141 - .172" [3,58 - 4,37mm] | M22520/2-01<br>M22520/7-01 | M22520/2-06<br>M22520/7-06                      | M81969/14-01           |
|              | 24                  | 3                      |                              |                              |                            |                                                 |                        |
|              | 26                  | 2                      |                              |                              |                            |                                                 |                        |
|              | 28                  | 1.5                    |                              |                              |                            |                                                 |                        |

## AMPHENOL PCD PRODUCTS



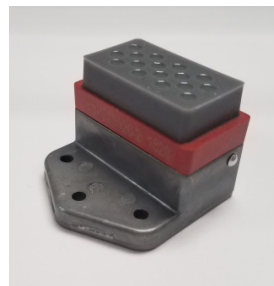
BACKSHELLS



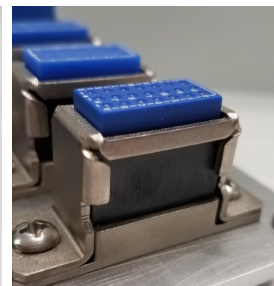
CABLE SOLUTIONS



CIRCULAR



GROUND BLOCKS



JUNCTION MODULES



LUMINUS



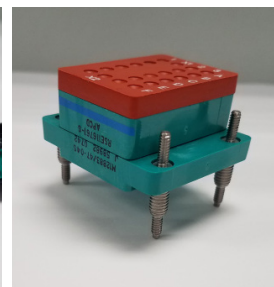
MILITARY AUDIO/POWER



PEGASUS SERIES



RECTANGULAR



RELAY SOCKETS



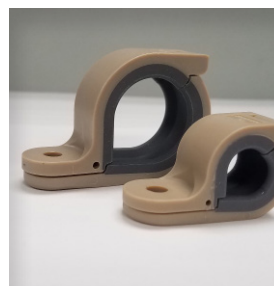
RUGGED SOLUTIONS



SIM



SOLARIS



SYSTEM ATTACHMENTS

# Amphenol Pcd

[www.amphenolpcd.com](http://www.amphenolpcd.com)



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)

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