

Series: Stick Antenna

Description: 2.4GHz Dipole Swivel Antenna with coax feed + U.FL

PART NUMBER: W1049BXXX



Features:

- 2400-2500MHz
- Gain 2dBi
- VSWR 2:1
- Various cable lengths
- Connector U.FL compatible
- Ingress Protection IP20
- RoHS Complaint

Applications:

- Indoor omnidirectional antenna
- ISM 2.4GHz radios
- Bluetooth, BLE, Zigbee
- WiFi 2.4-2.5GHz
- Direct cable connection to radio connector
- Swivel feature for optimized performance on all use cases

All dimensions are in mm / inches

Issue: 1904

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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ELECTRICAL SPECIFICATIONS

| | |
|--------------------|-----------------|
| Antenna Type | Dipole |
| Frequency | 2.4-2.5GHz |
| Nominal Impedance | 50 Ω |
| VSWR | 2:1(MAX) |
| Radiation Pattern | Omni |
| Gain | 2dBi (typical) |
| Efficiency | 75% (typical) |
| Polarization | Linear-Vertical |
| Power Withstanding | 2W |

MECHANICAL SPECIFICATIONS

| | Overall Length (mm/in) | Weight (g) | ANT Color | Connector Type | Cable Type | Cable Length (mm/in) |
|-----------|---------------------------|---------------|-----------|-------------------|---------------|-------------------------|
| W1049B030 | 158.5/6.25 | 4.86 | Black | I-PEX | MI-113 | 76/3 |
| W1049B050 | 209.5/8.25 | 5.49 | Black | I-PEX | MI-113 | 127/5 |
| W1049B070 | 260.5/10.25 | 6.12 | Black | I-PEX | MI-113 | 178/7 |
| W1049B090 | 311.5/12.25 | 6.75 | Black | I-PEX | MI-113 | 229/9 |
| W1049B120 | 387.5/15.25 | 7.70 | Black | I-PEX | MI-113 | 305/12 |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|------------------|
| Operating Temperature | -40 ~ +85° C |
| Storage Temperature | -40 ~ +85° C |
| Ingress Protection | IP20, Indoor use |
| RoHS Compliant | Yes |

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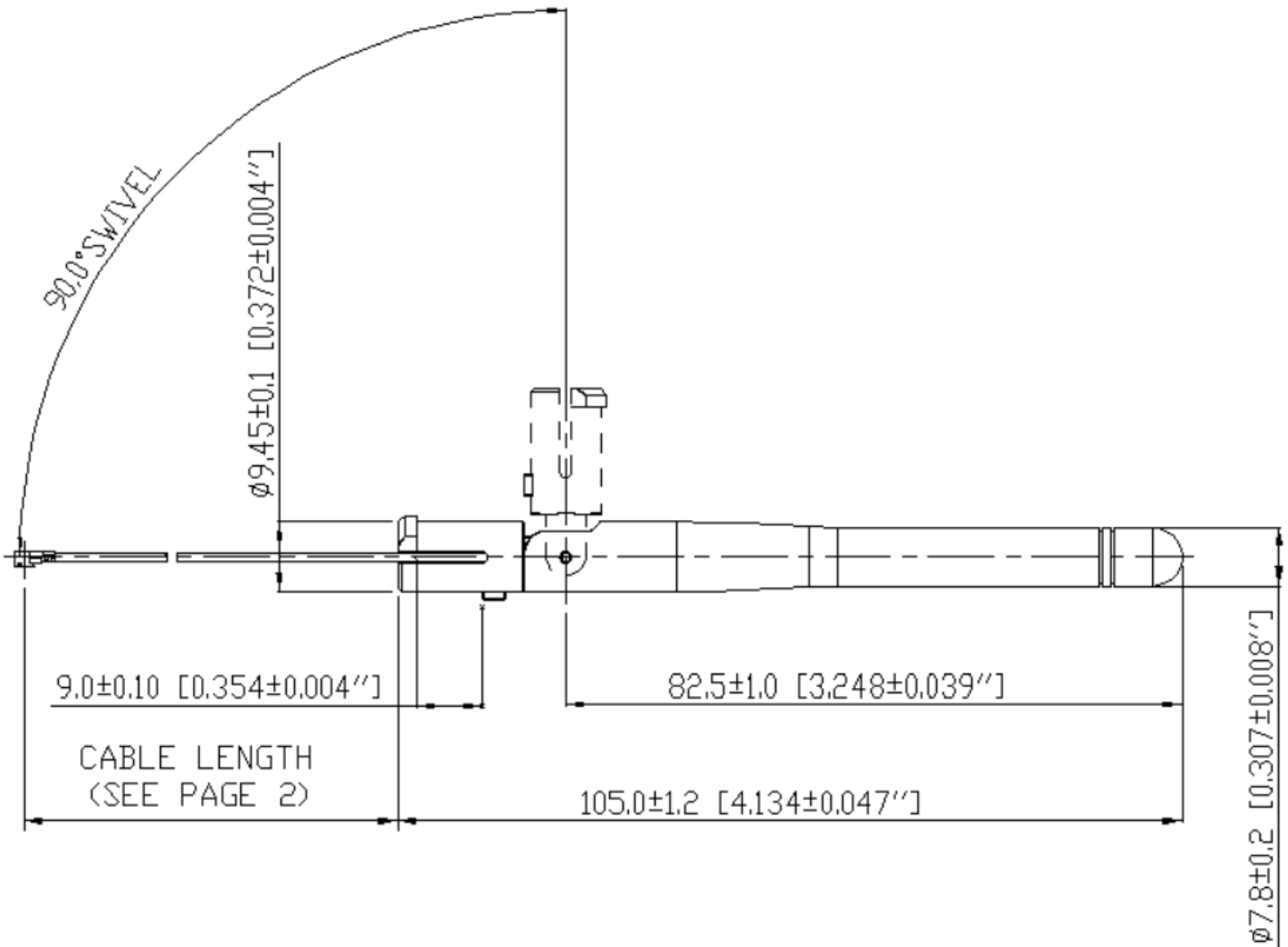
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MECHANICAL DRAWING



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TEST SETUP

SETUP1 - 0°



SETUP2 - 90°



Test in free space without ground plane.

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CHARTS

VSWR vs Frequency



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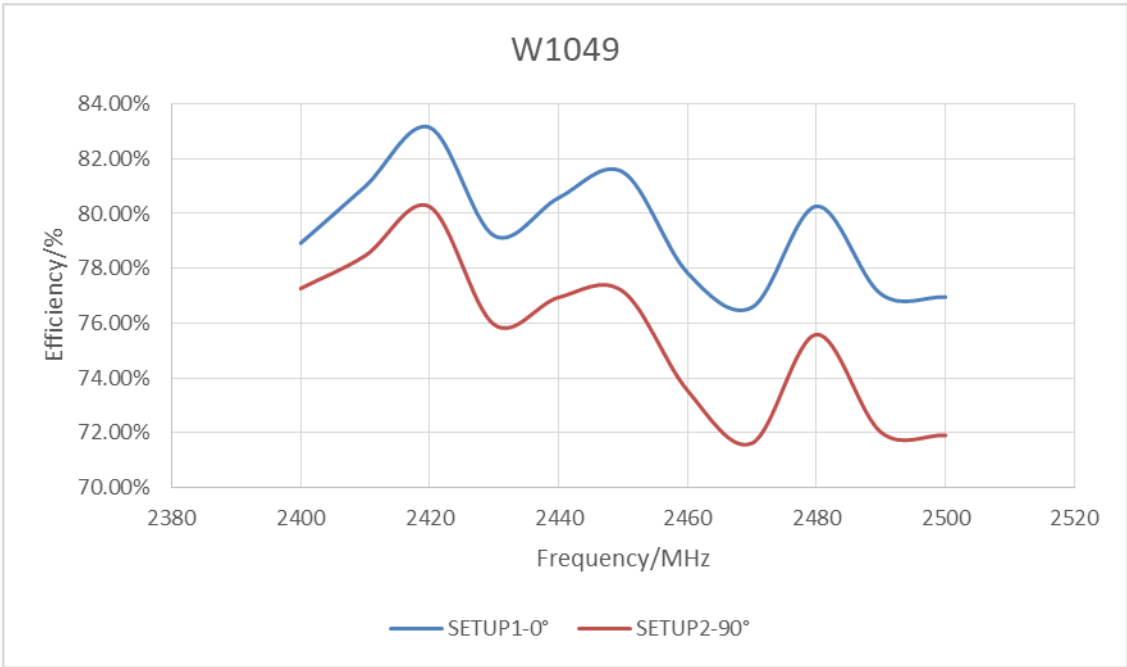
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CHARTS

Peaking Gain



Radiation Efficiency



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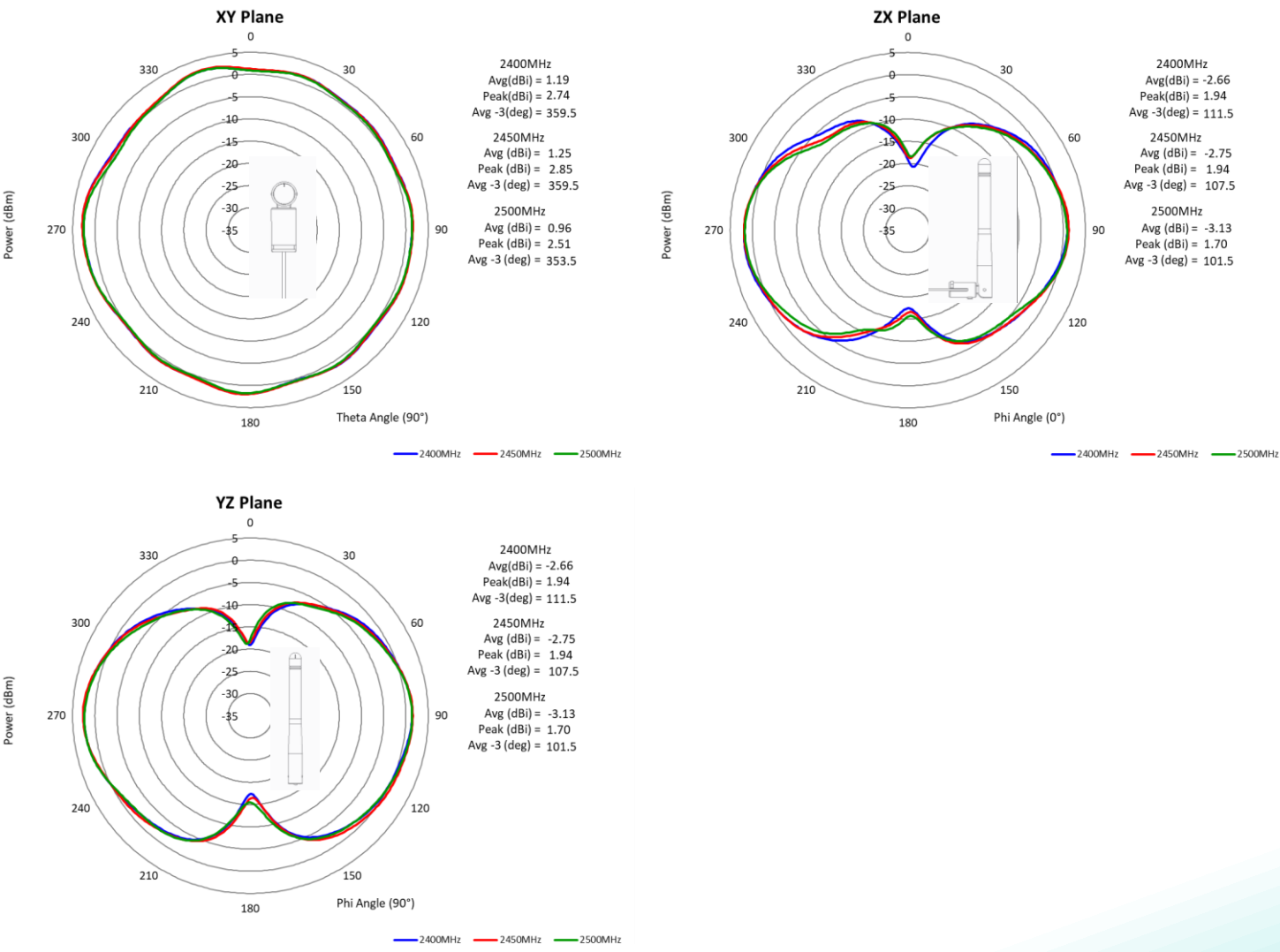
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CHARTS

SETUP2-90° Radiation pattern (2D) /2400-2500MHz



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PACKAGING

Quantity: 1200 PCS per Box

Packaging Steps:

1. Place 20pcs products into PE bag
2. Apply HF & RoHS label onto PE bag and seal bag.

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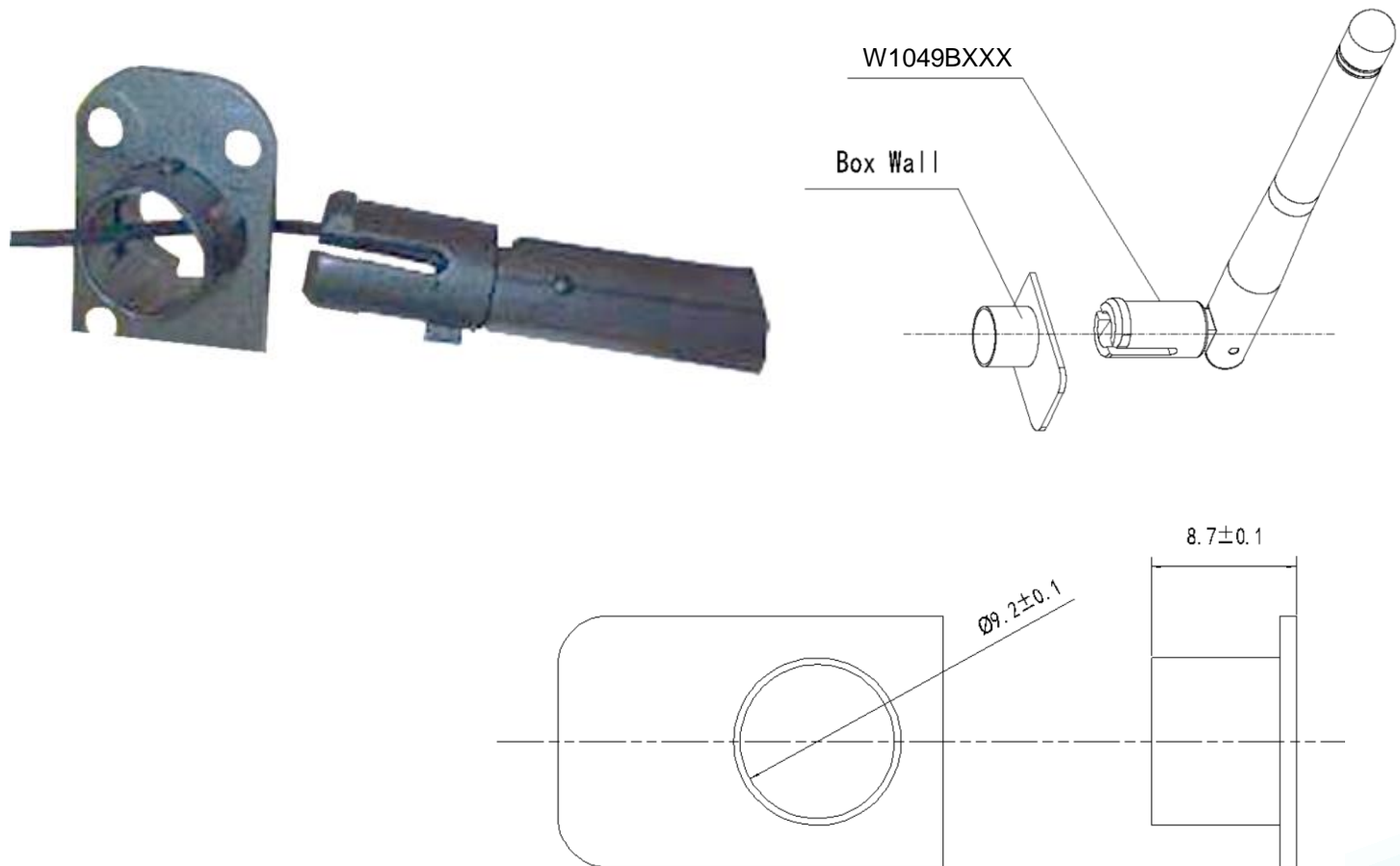
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ASSEMBLY

The antenna has two kinds of mounting method

Option 1. If the box wall has the support structure as below, the antenna just directly insert into the hole of the box wall. The suggestion hole size is shown in the drawing.



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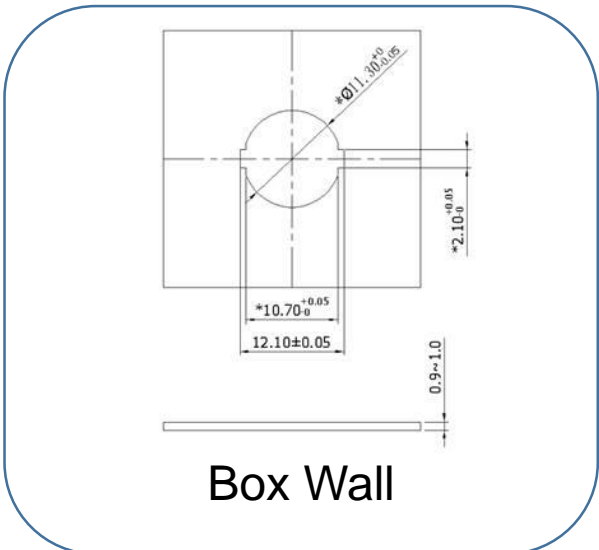
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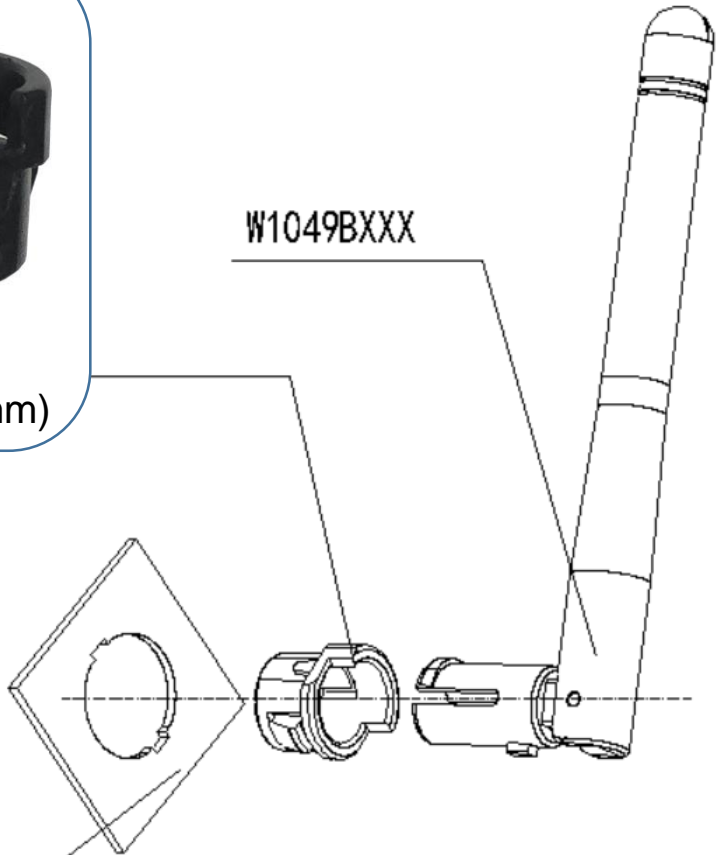
Option 2. If the box wall is flat wall. We should install the plastic mounting grommet we provide into the hole of the box wall firstly, then install the antenna. The suggestion hole size and wall thickness are below.



Plastic Mounting Grommet (Unit: mm)



Box Wall





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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