

Series: IceFin

TECHNICAL DATA SHEET Description: LOW PROFILE MULTIBAND ANTENNA

### PART NUMBER: ICEFINXXX





#### All dimensions are in mm / inches

#### Issue: 1743

For more information:

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Pulse Worldwide Headquarters 15255 Innovation Drive #100 San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 18110 SE 34<sup>th</sup> St Bldg 2 Suite 250 Vancouver, WA 98683 USA Tel: 1-360-944-7551 Europe Headquarters Pulse GmbH & Do, KG Zeppelinstrasse 15 Herrenberg, Germany Tel: 49 7032 7806 0 Pulse (Suzhou) Wireless Products Co, Inc. 99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998

Features:

- Transparent clear visually appealing plastic radome
- Short, slim profile without sacrificing RF or mechanical performance
- Direct and NMO mount models
- IP67 Weatherproof

## **Applications:**

- Models supporting :
  - Public Safety, LMR
  - Wi-Fi,
  - 3G/4G LTE,
  - ISM
  - DSRC
- Bus/Rail/Transit
- IoT Vending, metering and other industrial applications
- Outdoor Vehicular



1



TECHNICAL DATA SHEET Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

This document covers all product variants of the following product family:

Project	Color	Frequency	Size	Fixing System Connector	
ICEFINLNMOHF	Clarity	698-960MHz 1710-2700MHz	78.71] 3.10 [38] Ø1.496	NMOHF NMO + HF Connector	
ICEFIN698/960NMO	Clarity	750-960MHz			
ICEFIN806NMO	Clarity	806-960MHz		NMO Pogo Pin Connector	
ICEFIN698/869DMN	Clarity	698-869MHz	[78.71] 3.10 [27.30] 1.07 [27.30] (38] Ø1.496		
ICEFIN806DMN	Clarity	806-960MHz		DMN	
ICEFINLDMN	Clarity	698-960MHz 1710-2700MHz		Direct Mount + N Female Connector (Screw 5/18-24 UNEF 2A)	

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## Series: IceFin

### PART NUMBER: ICEFINXXX

This document covers all product variants of the following product family:

Project	Color	Frequency	Size	Fixing System Connector	
ICEFIN24NMOHF	Clarity	2400-2500MHz			
ICEFIN49NMOHF	Clarity	4900-6000MHz			
ICEFINWNMOHF	Clarity	2400-2500MHz 4900-6000MHz	€[38] Ø1.496	NMOHF NMO + HF Connector	
ICEFIN24DMN	Clarity	2400-2500MHz		Direct Mount N Female Connector (Screw 5/18-24 UNEF 2A)	
ICEFIN49DMN	Clarity	4900-6000MHz			
ICEFINWDMN	Clarity	2400-2500MHz 4900-6000MHz	[27.30] 1.07 [38] 01.496		

P.S.: For DMN fixing system, it requires a 5/8" (16mm) hole in the mounting surface.

Remove any burrs, particularly on the Roof under side of the hole. Remove paint in a narrow ring around the hole. Metal-to-metal contact between the mounting surface and mount is essential for best performance.



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Description: LOW PROFILE MULTIBAND ANTENNA

**Series: IceFin** 

**PART NUMBER: ICEFINXXX** 

## **ELECTRICAL SPECIFICATIONS**

Project	Frequency	VSWR	Peak Gain	Efficiency	Power Handling
ICEFINLNMOHF	698-960MHz 1710-2700MHz	3.2:1(0.698-0.96GHz) 2:1(1.71-2.7GHz)	2.98dBi(0.698-0.96GHz) 3.82dBi(1.71-2.69GHz)	75% 61%	20W(100% duty cycle) 30W(50%
ICEFIN698/960NMO	750-960MHz	2.2:1	4.5dBi	65%	duty cycle) 30W(100% duty cycle) 40W(50% duty cycle)
ICEFIN806NMO	806-960MHz	2.2:1	2.91dBi	63%	30W(100% duty cycle) 40W(50% duty cycle)
ICEFIN698/869DMN	698-869MHz	2.3:1	2.6dBi	54%	5W(100% duty cycle) 15W(50% duty cycle)
ICEFIN806DMN	806-960MHz	2.2:1	3.7dBi	78%	10W(100% duty cycle) 20W(50% duty cycle)
ICEFINLDMN	698-960MHz 1710-2700MHz	3.2:1(0.698-0.96GHz) 2:1(1.71-2.7GHz)	3.1dBi(0.698-0.96GHz) 5.17dBi(1.71-2.69GHz)	76% 79%	20W(100% duty cycle) 30W(50% duty cycle)

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4

RoHS



Description: LOW PROFILE MULTIBAND ANTENNA

## Series: IceFin

#### PART NUMBER: ICEFINXXX

### ELECTRICAL SPECIFICATIONS

Project	Frequency	VSWR	Peak Gain	Efficiency	Power Handling
ICEFIN24NMOHF	2400-2500MHz	2:1	5.2dBi	88%	20W(100% duty cycle)
					30W(50% duty cycle)
ICEFIN49NMOHF	4900-6000MHz	2:1	6.2dBi	66%	20W((100% duty cycle) 30W(50% duty cycle)
ICEFINWNMOHF	2400-2500MHz 4900-6000MHz	2:1(2.4-2.5GHz) 2:1(4.9-6GHz)	5.2dBi 6.2dBi	88% 66%	20W(100% duty cycle)
ICEFIN24DMN	2400-2500MHz	2:1	5.2dBi	88%	30W(50% duty cycle) 20W(100% duty cycle)
ICEFIN49DMN	4900-6000MHz	2:1	6.2dBi	66%	30W(50% duty cycle) 20W(100% duty cycle)
					30W(50% duty cycle) 20W(100% duty cycle)
ICEFINWDMN	2400-2500MHz 4900-6000MHz	2:1(2.4-2.5GHz) 2:1(4.9-6GHz)	5.2dBi 6.2dBi	88% 66%	30W(50% duty cycle)
Nominal Im	pedance	1	1	50Ω	I]

Radiation Pattern

Polarization:

omni

Vertical

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5



TECHNICAL DATA SHEET Description: LOW PROFILE MULTIBAND ANTENNA

## **Series: IceFin**

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MECHANICAL SPECIFICATIONS			
Plastic radome	PC		
Color	Clarity		
Ingress Protection	IP67		

### **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature

-40 ~ +85° C

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6



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**CHARTS** 

## **VSWR**

ICEFINLNMOHF VSWR



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7



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

## VSWR



1.0 1.0  $e^{e^{i\theta}}$   $e^{e^{i\theta}}$  $e^{e^{i\theta}}$ 

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8



Description: LOW PROFILE MULTIBAND ANTENNA

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CHARTS

## **VSWR**

ICEFIN806NMO VSWR



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9



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

#### PART NUMBER: ICEFINXXX

**CHARTS** 

## **VSWR**





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ROHS 10



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Series: IceFin

#### PART NUMBER: ICEFINXXX



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

#### PART NUMBER: ICEFINXXX

**CHARTS** 

## **VSWR**

ICEFINLDMN VSWR



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ROHS 12



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

## **VSWR**

ICEFIN24NMOHF VSWR



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ROHS 13



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

## **VSWR**

ICEFIN49NMOHF VSWR



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

#### PART NUMBER: ICEFINXXX

CHARTS VSWR



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ROHS 15



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

PART NUMBER: ICEFINXXX

CHARTS

## **VSWR**

ICEFIN24DMN VSWR



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ROHS 16



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

#### PART NUMBER: ICEFINXXX

CHARTS

## **VSWR**

ICEFIN49DMN VSWR



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

#### PART NUMBER: ICEFINXXX



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ROHS 18



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

#### CHARTS

Efficiency(%)

ICEFINLNMOHF Efficiency (%)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

# CHARTS

Efficiency(%)





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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Efficiency(%)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

#### CHARTS

Efficiency(%)



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ROHS 22



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Efficiency(%)

ICEFIN806DMN Efficiency (%)



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ROHS 23



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Efficiency(%)

ICEFINLDMN Efficiency (%)



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Description: LOW PROFILE MULTIBAND ANTENNA

## Series: IceFin

#### PART NUMBER: ICEFINXXX

#### CHARTS

Efficiency(%)

ICEFIN24NMOHF Efficiency (%)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Efficiency(%)

ICEFIN49NMOHF Efficiency (%)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Efficiency(%)

ICEFINWNMOHF Efficiency (%)



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Description: LOW PROFILE MULTIBAND ANTENNA

## Series: IceFin

#### PART NUMBER: ICEFINXXX

#### CHARTS

Efficiency(%)

ICEFIN24DMN Efficiency (%)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Efficiency(%)

ICEFIN49DMN Efficiency (%)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Efficiency(%)

ICEFINWDMN Efficiency (%)



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ROHS 30



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)

ICEFINLNMOHF Peak Gain(dBi)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

#### CHARTS

Peak Gain (dBi)

ICEFIN698/960NMO Peak Gain(dBi)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)

ICEFIN806NMO Peak Gain(dBi)



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ROHS 33



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

## Peak Gain (dBi)

ICEFIN698/869DMN Peak Gain(dBi)



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ROHS 34



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)

ICEFIN806DMN Peak Gain(dBi)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)

ICEFINLDMN Peak Gain(dBi)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)

ICEFIN24NMOHF Peak Gain(dBi)



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ROHS 37



Description: LOW PROFILE MULTIBAND ANTENNA

## Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)





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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)

ICEFINWNMOHF Peak Gain(dBi)



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ROHS 39



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)

ICEFIN24DMN Peak Gain(dBi)



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ROHS 40



Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)

ICEFIN49DMN Peak Gain(dBi)



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Description: LOW PROFILE MULTIBAND ANTENNA

Series: IceFin

### PART NUMBER: ICEFINXXX

### CHARTS

Peak Gain (dBi)

ICEFINWDMN Peak Gain(dBi)



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ROHS 42



**Series: IceFin** 

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

ICEFINLNMOHF



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**Series: IceFin** 

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern





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**Series: IceFin** 

PART NUMBER: ICEFINXXX

CHARTS

# Free Space Radiation Pattern

ICEFIN698/960NMO



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**Series: IceFin** 

**PART NUMBER: ICEFINXXX** 

### CHARTS

# Free Space Radiation Pattern

ICEFIN806NMO



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**Series: IceFin** 

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

ICEFIN698/869DMN



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**Series: IceFin** 

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern





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**Series: IceFin** 

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

**ICEFINLDMN** 



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**Series: IceFin** 

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

**ICEFINLDMN** 



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**Series: IceFin** 

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

**ICEFIN24NMOHF** 



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Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

**ICEFIN49NMOHF** 



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**Series: IceFin** 

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

**ICEFINWNMOHF** 



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Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

**ICEFINWNMOHF** 



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Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern





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**Series: IceFin** 

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

**ICEFIN49DMN** 



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**PART NUMBER: ICEFINXXX** 

### CHARTS

# Free Space Radiation Pattern

**ICEFINWDMN** 



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Series: IceFin

PART NUMBER: ICEFINXXX

## CHARTS

# Free Space Radiation Pattern

**ICEFINWDMN** 



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## Series: IceFin

### **PART NUMBER: ICEFINXXX**

## PACKAGING

Project	Color	Frequency	Size	Fixing System Connector	Packaging
ICEFINLNMOHF	Clarity	698-960MHz 1710-2700MHz	78.71] 3.10 	NMOHF NMO + HF Connector	16
ICEFIN698/960NMO	Clarity	750-960MHz			16 pcs / Tray 32 pcs / Carton
ICEFIN806NMO	Clarity	806-960MHz			
ICEFIN698/869DMN	Clarity	698-869MHz	[78.71] 3.10 [27.30] 1.07 [38] (38] (38) (31.466	DMN Direct Mount + N Female Connector (Screw 5/18-24 UNEF 2A)	96 pcs / Carton
ICEFIN806DMN	Clarity	806-960MHz			
ICEFINLDMN	Clarity	698-960MHz 1710-2700MHz			

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Description: LOW PROFILE MULTIBAND ANTENNA

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PACKAGING								
Project	Color	Frequency	Size	Fixing System Connector	Packaging			
ICEFIN24NMOHF	Clarity	2400-2500MHz						
ICEFIN49NMOHF	Clarity	4900-6000MHz			16 pcs / Tray 32 pcs / Carton			
ICEFINWNMOHF	Clarity	2400-2500MHz 4900-6000MHz	[38] Ø1.496	NMOHF NMO + HF Connector				
ICEFIN24DMN	Clarity	2400-2500MHz			96 pcs / Carton			
ICEFIN49DMN	Clarity	4900-6000MHz			16 pcs / Tray 32 pcs / Carton			
ICEFINWDMN	Clarity	2400-2500MHz 4900-6000MHz	[27.30] 1.07 [38] [38] 01.496	Direct Mount N Female Connector (Screw 5/18-24 UNEF 2A)	96 pcs / Carton			

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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:** <u>org@eplast1.ru</u> **Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.