



Series: CERAMIC CHIP

Description: GNSS-DUAL WIFI-DSRC ANT

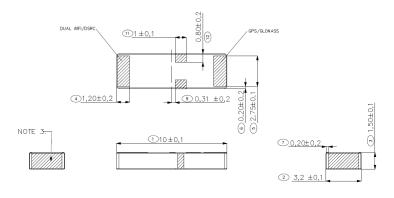
PART NUMBER: W3095

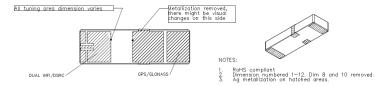
Features:

- 3 in 1 solution on a ceramic chip with two separate feeds.
- Need smaller antenna space on PCB to integrate GPS/GLONASS, Dual WiFi and DSRC bands
- Compact Size (L x W x H) 10 x 3.2 x 1.5mm.
- Fully SMD compatible

Applications:

- GPS / GLONASS (1575-1610MHz)
- IEEE 802.11 a/b/g/n compliant 2.4 and 5GHz. (2400-2485/ 4900-5850MHz)
- DSRC (5850-5925MHz)
- Mobile navigation device





All dimensions are in mm / inches

Issue: 1804

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

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ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS			
Frequency, Port 1	1.575-1.610 GHZ		
Frequency, Port 2	2.4-2.485/ 4.9-5.925 GHz		
Normal Impedance	50 Ohm		
VSWR, Port 1	<2.5:1		
VSWR, Port 2	<2:1at low band <2.8:1 at high band		
Efficiency (Typ.), Port 1	60 %		
Efficiency (Typ.), Port 2	80/ 50 %		
Peak Gain, Port 1	1.5 dBi		
Peak Gain, Port 2	2.5/ 3.5 dBi		
Isolation (Min.) at 1.575-1.610 GHz	22 dB		
Isolation (Min.) at 2.4-2.485 GHz	20 dB		
Isolation (Min.) at 4.9-5.925 GHz	22 dB		
Polarization	Linear		
Interface	SMD Mount		



TECHNICAL DATA SHEET

Description: GNSS-DUAL WIFI-DSRC ANT

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MECHANICAL SPECIFICATIONS

Block material Dielectric ceramic

Plating material Ag

Weight 0.24 g

RoHS Compliant Product

Tape and reel packing

Lead free materials

Lead free soldering compatible

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-30 to +80° C



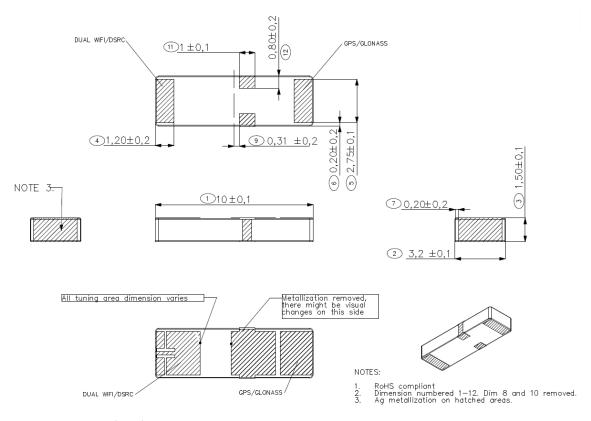




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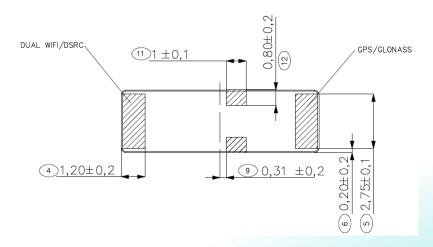
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MECHANICAL DRAWING



Dimensions: (mm)

Details of antenna pad dimension on the bottom in mm.



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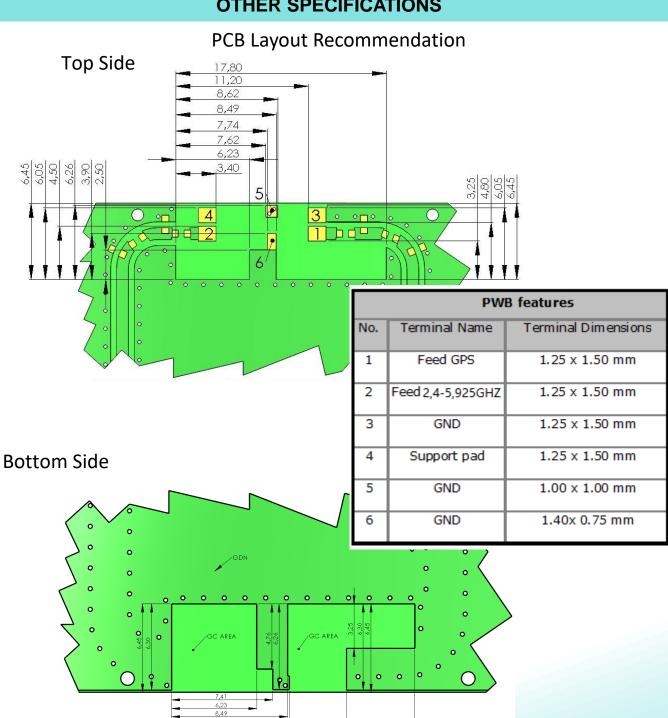




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OTHER SPECIFICATIONS



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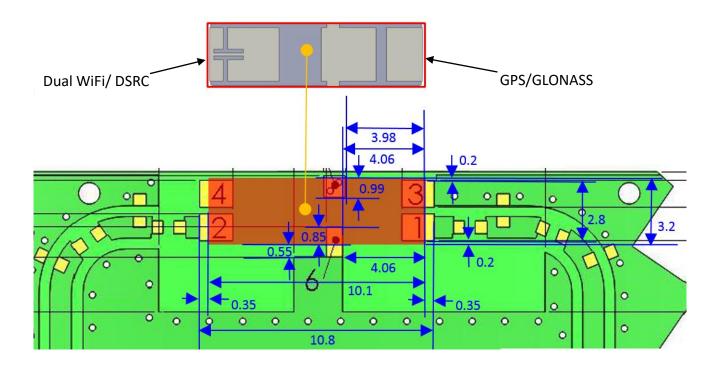


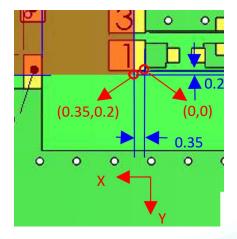
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OTHER SPECIFICATIONS

Antenna Alignment on PCB Layout







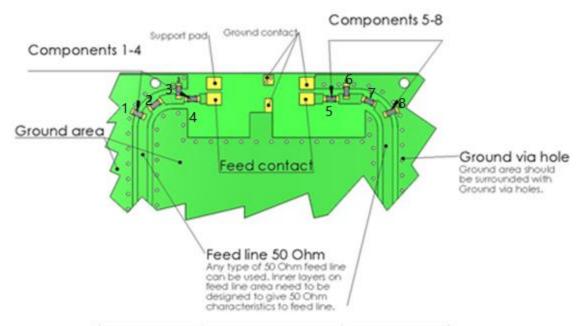


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OTHER SPECIFICATIONS

Suggested Matching on PCB



Antenna	Component NO.	Value
2.4-5.925GHz	1	Optional, not in use
2.4-5.925GHz	2	0 Ohm
2.4-5.925GHz	3	2.2nH
2.4-5.925GHz	4	1.2pF
GPS/Glonass	5	0 Ohm
GPS/Glonass	6	1.8pF
GPS/Glonass	7	0 Ohm
GPS/Glonass	8	Optional, not in use





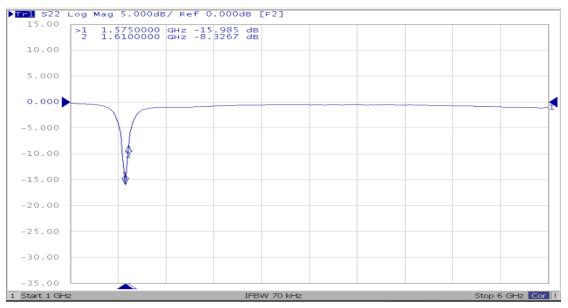
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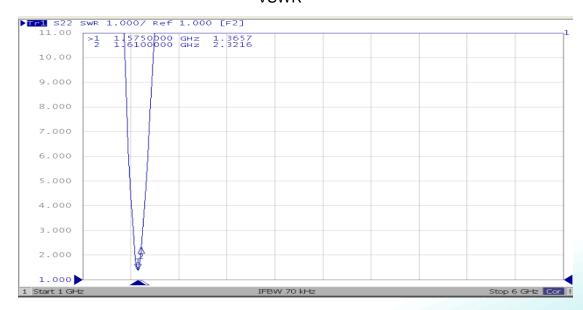
CHARTS

Typical GPS/GLONASS antenna Return Loss

LOG



VSWR





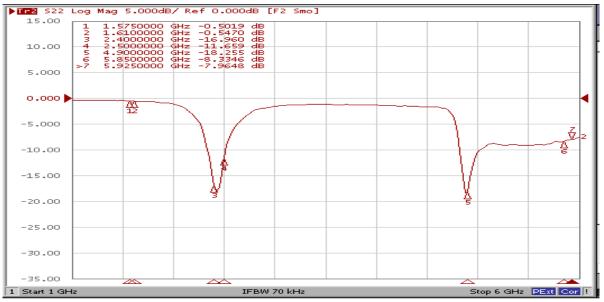


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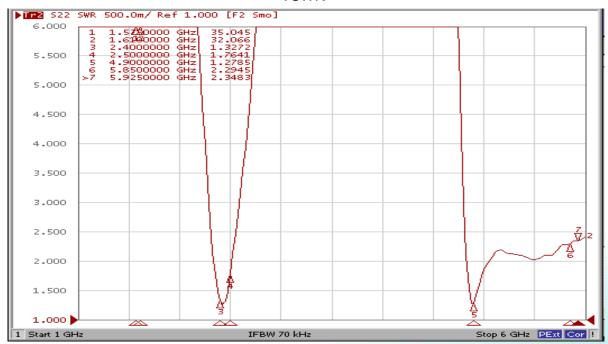
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CHARTS

Typical WIFI antenna Return Loss



VSWR



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RóHS





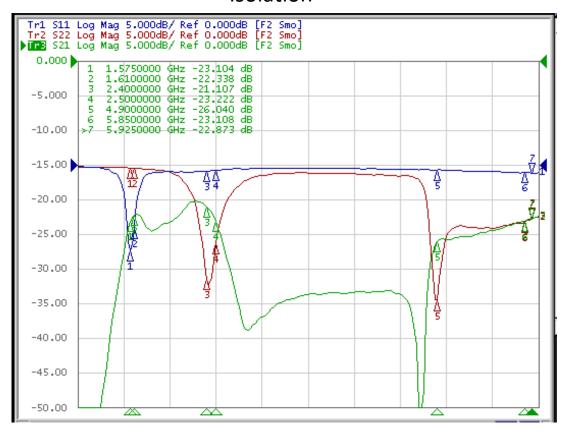
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CHARTS

Typical Isolation

Isolation







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70%

65%

55%

1575

1580

1585

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CHARTS

Typical Antenna Total Efficiency

GPS/GLONASS

60% ——Efficiency(%)

50%

1590

Frequency/MHz

1600

1605

1610

1595

WIFI/DSKC

90%

70%

——Efficiency(%)

Frequency/MHz

50%





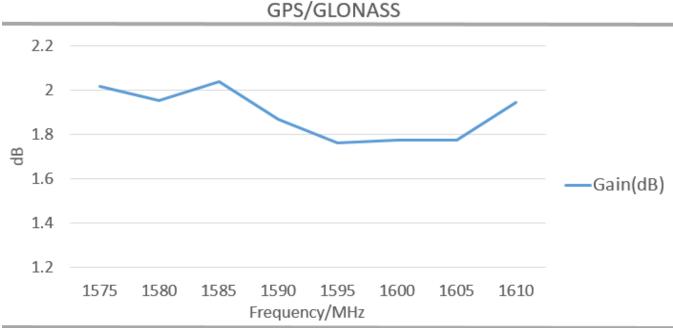


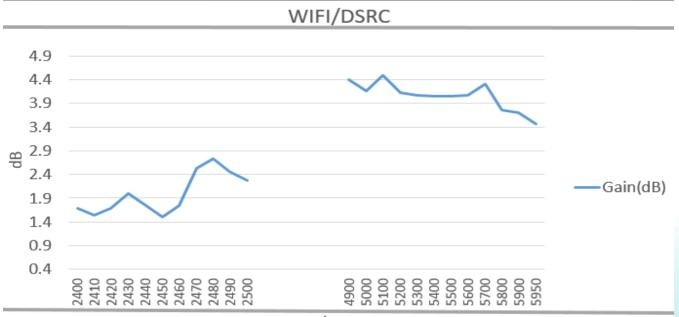
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CHARTS

Typical Antenna Peak Gain





Frequency/MHz





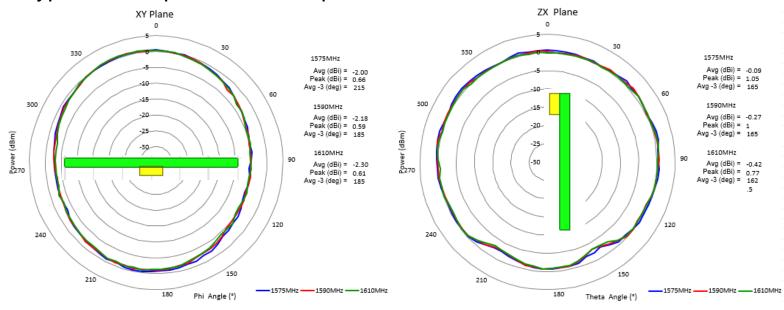


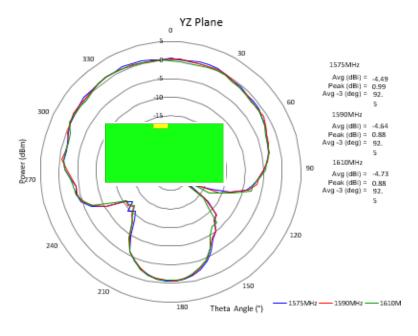
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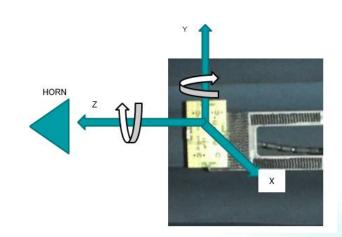
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CHARTS

Typical free space radiation pattern—GPS/GLONASS







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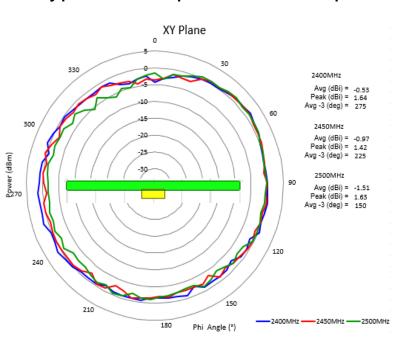
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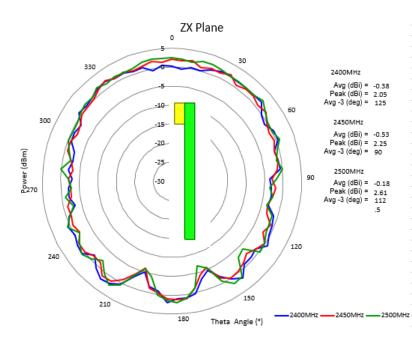
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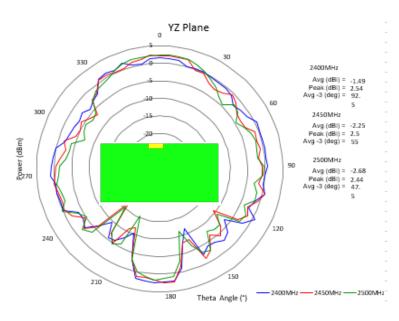
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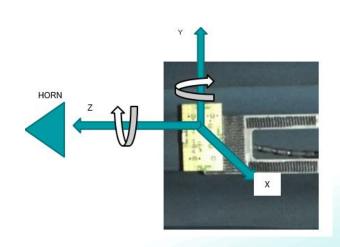
CHARTS

Typical free space radiation pattern—2.4G









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ROHS

14



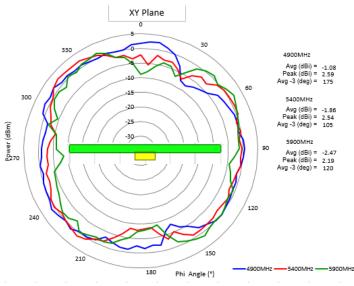


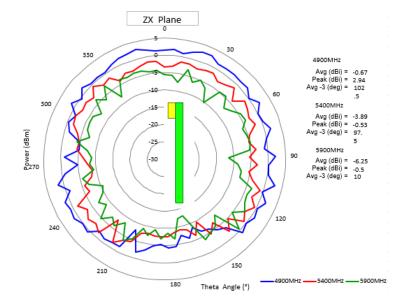
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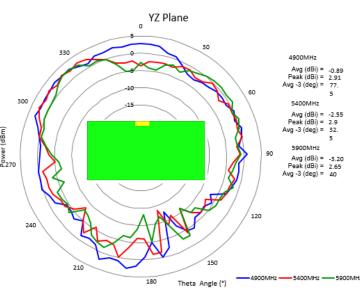
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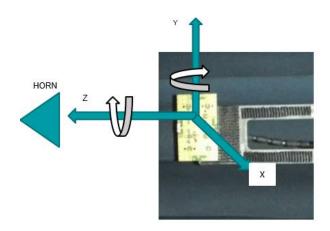
CHARTS

Typical free space radiation pattern—5G









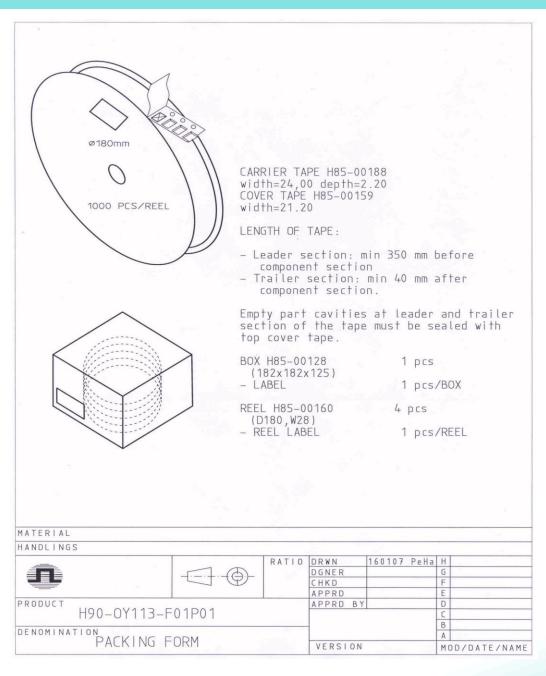




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PACKAGING







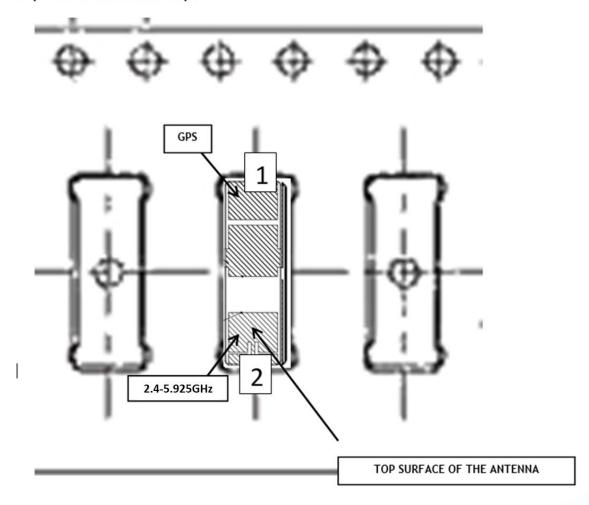
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Block Orientation

Antenna soldering pads facing down to the bottom of the carrier tape

Top view of the carrier tape



ПОСТАВКА ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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

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