

Features:

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

Applications:

- GNSS(1560-1610MHz)
- GPS, Glonass, Beidou
- 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: 2042

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

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Tel: 86 512 6807 9998

ELECTRICAL SPECIFICATIONS

Frequency, Port 1	1.560-1.610 GHZ
Frequency, Port 2	2.4-2.485/ 4.9-5.925 GHz
Normal Impedance	50 Ohm
Return Loss, Port 1	<2.5:1
Return Loss, Port 1	<2:1at low band <2.8:1 at high band
Efficiency (Typ.), Port 1	65 %
Efficiency (Typ.), Port 2	70/ 55 %
Peak Gain, Port 1	1.5 dBi
Peak Gain, Port 2	1.5/ 3.5 dBi
Isolation (Min.) at 1.560-1.610 GHz	20 dB
Isolation (Min.) at 2.4-2.485 GHz	18 dB
Isolation (Min.) at 4.9-5.925 GHz	22 dB
Polarization	Linear
Interface	SMD Mount

Description: GNSS-DUAL WIFI-DSRC ANT**PART NUMBER:** W3095**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	
Vibration test	According to AEC-Q200-Rev-D MIL-STD-202 Method 204, 5g's for 20 min., 12 cycles each of 3 orientations. Note: USE 8" x 5" PCB .031" thick 7 secure points on one long side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10-2000 Hz.
Moisture sensitivity level	MSL 1

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-30 to +80° C
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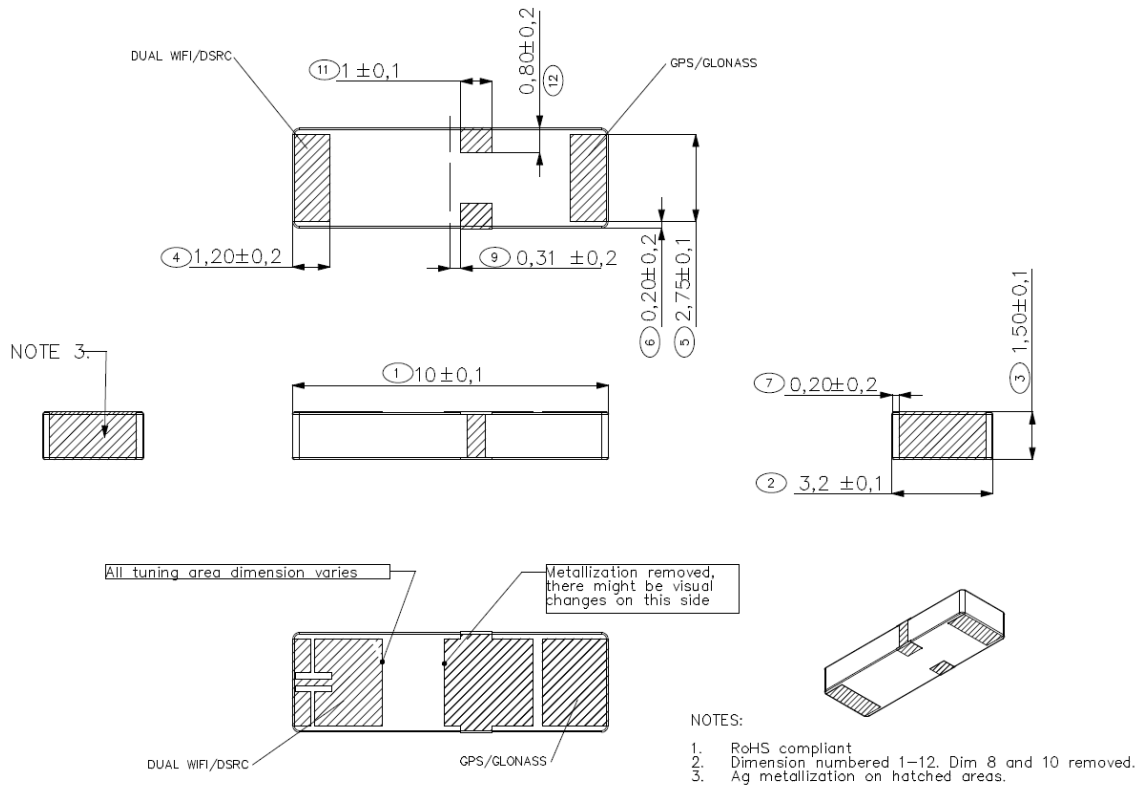
a YAGEO company

Description: GNSS-DUAL WIFI-DSRC ANT

Series: CERAMIC CHIP

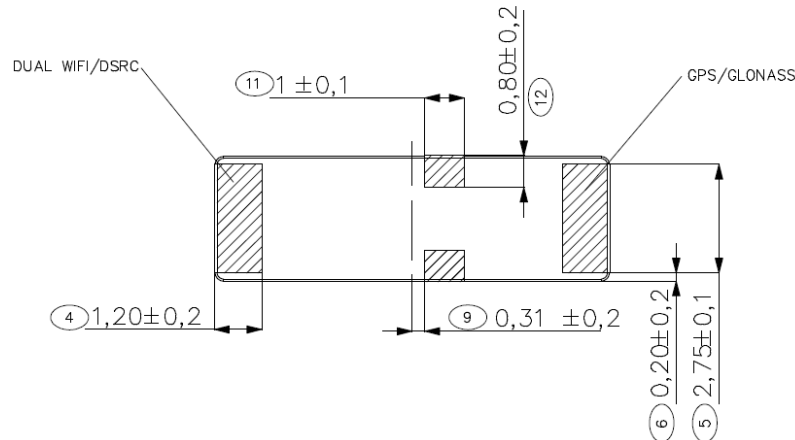
PART NUMBER: W3095

MECHANICAL DRAWING



Dimensions: (mm)

Details of antenna pad dimension on the bottom in mm.



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Series: CERAMIC CHIP

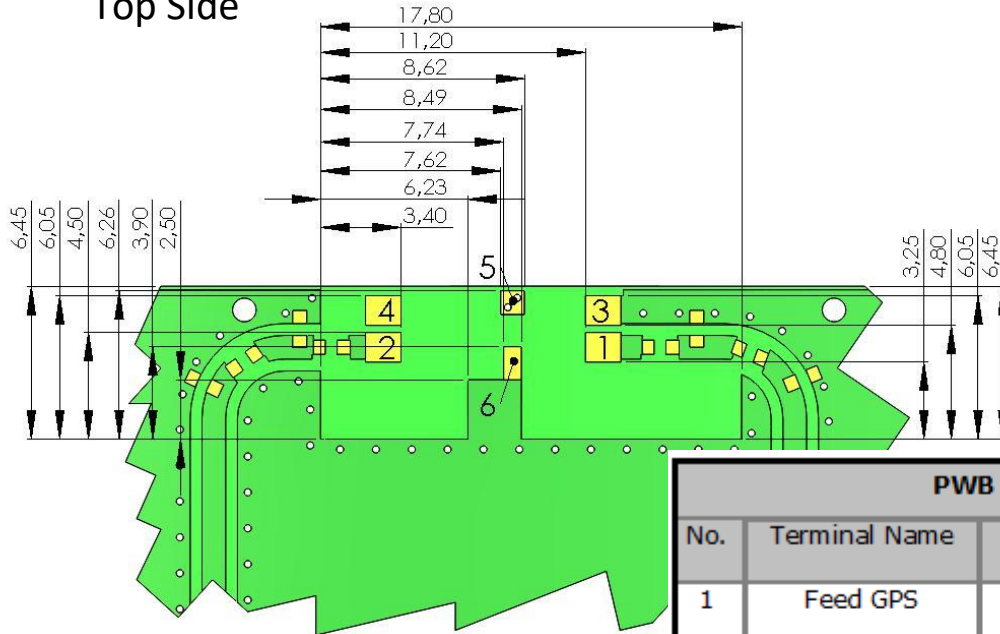
Description: GNSS-DUAL WIFI-DSRC ANT

PART NUMBER: W3095

OTHER SPECIFICATIONS

PCB Layout Recommendation

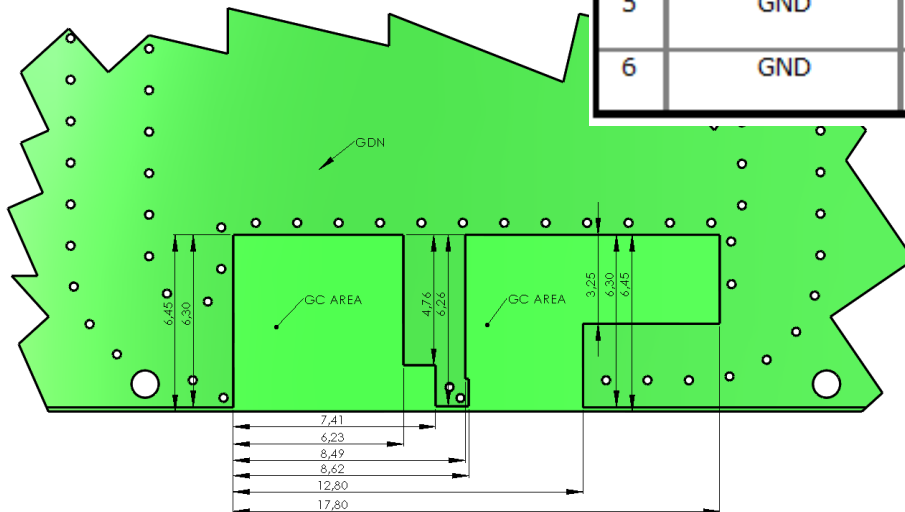
Top Side



PWB features

No.	Terminal Name	Terminal Dimensions
1	Feed GPS	1.25 x 1.50 mm
2	Feed 2,4-5,925GHZ	1.25 x 1.50 mm
3	GND	1.25 x 1.50 mm
4	Support pad	1.25 x 1.50 mm
5	GND	1.00 x 1.00 mm
6	GND	1.40x 0.75 mm

Bottom Side



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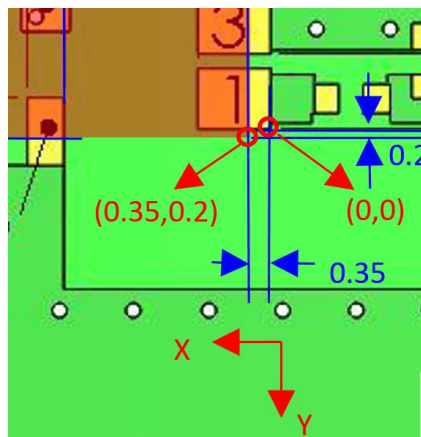
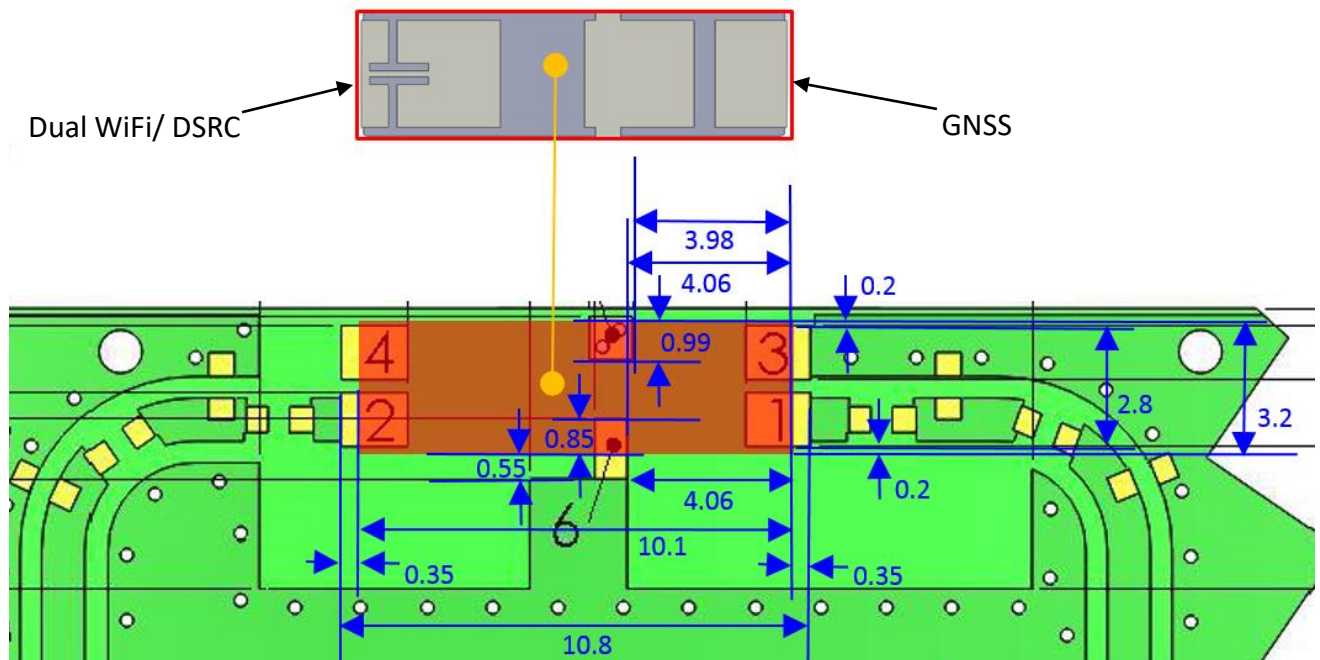
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OTHER SPECIFICATIONS

Antenna Alignment on PCB Layout



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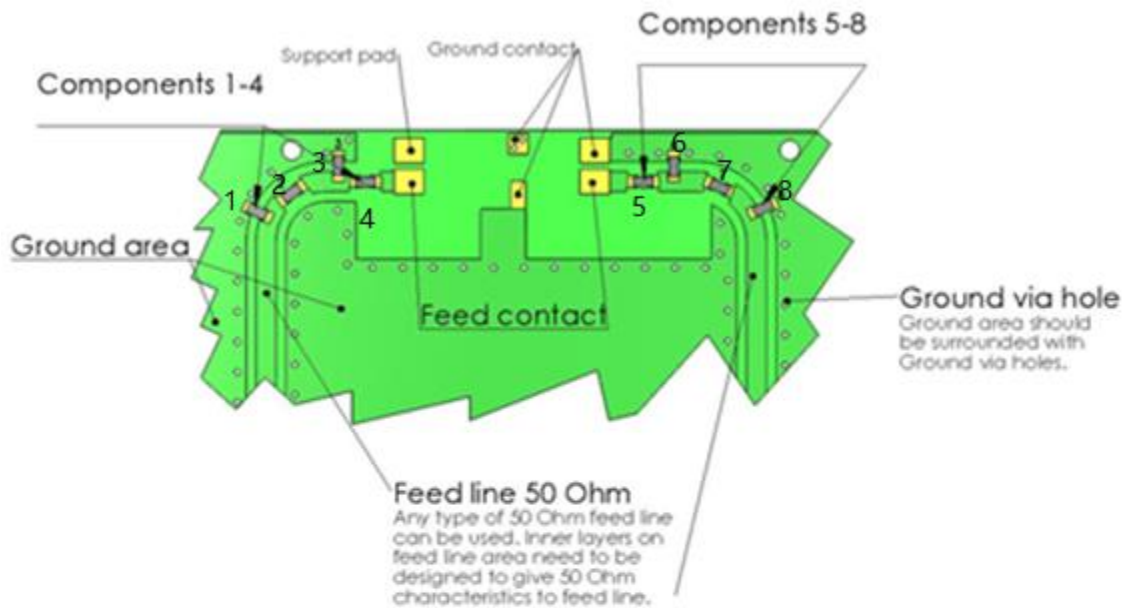
Description: GNSS-DUAL WIFI-DSRC ANT

Series: CERAMIC CHIP

PART NUMBER: W3095

OTHER SPECIFICATIONS

Suggested Matching on PCB



Antenna	Component NO.	Value
2,4-5,85GHz	1	Not in use
2,4-5,85GHz	2	0 Ohm
2,4-5,85GHz	3	2,2nH
2,4-5,85GHz	4	1,2pF
GNSS	5	0 Ohm
GNSS	6	1,8pF
GNSS	7	0 Ohm
GNSS	8	Not in use

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CHARTS

Typical GNSS antenna Return Loss



Typical WIFI antenna Return Loss



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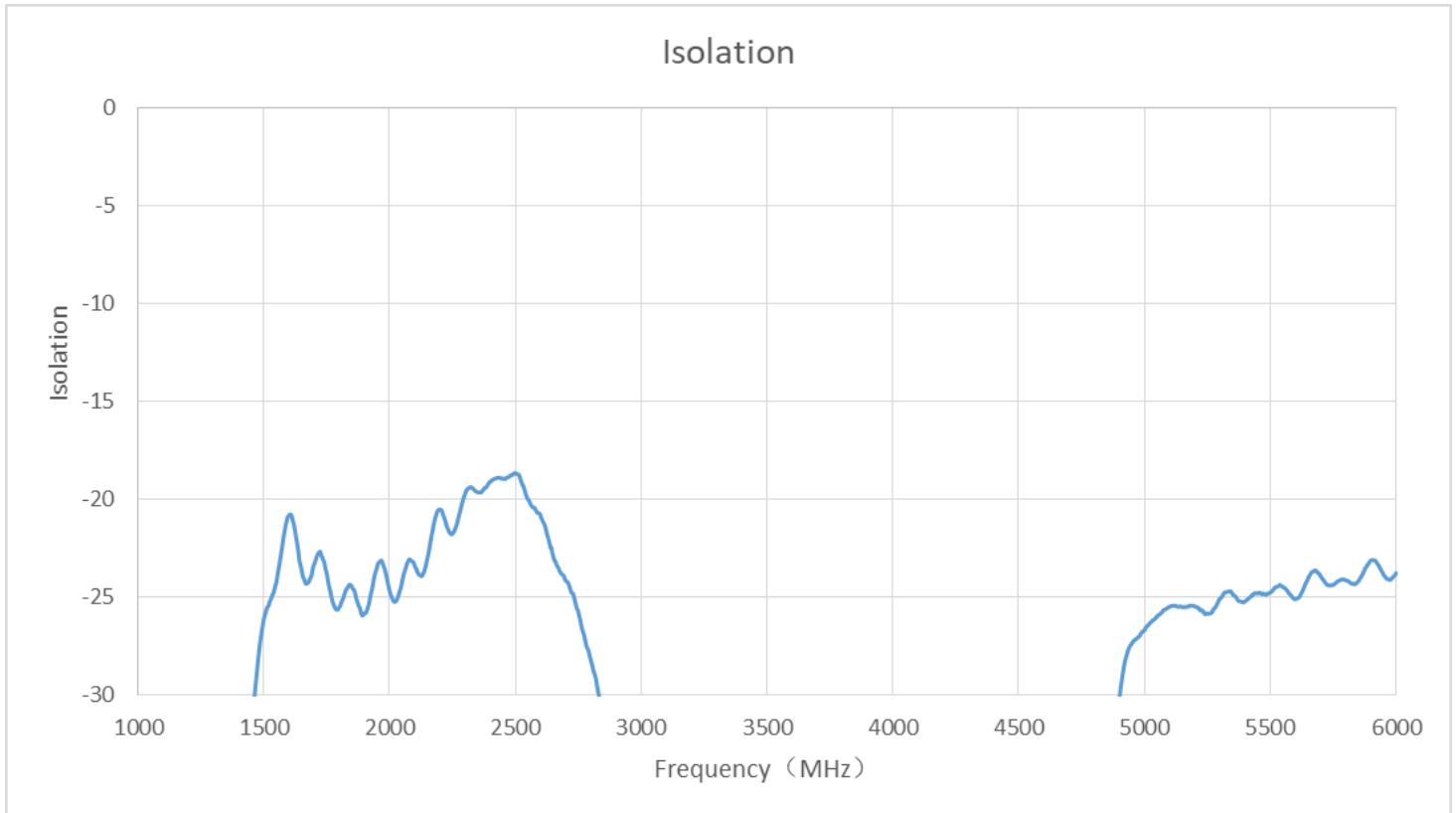
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CHARTS

Typical Isolation



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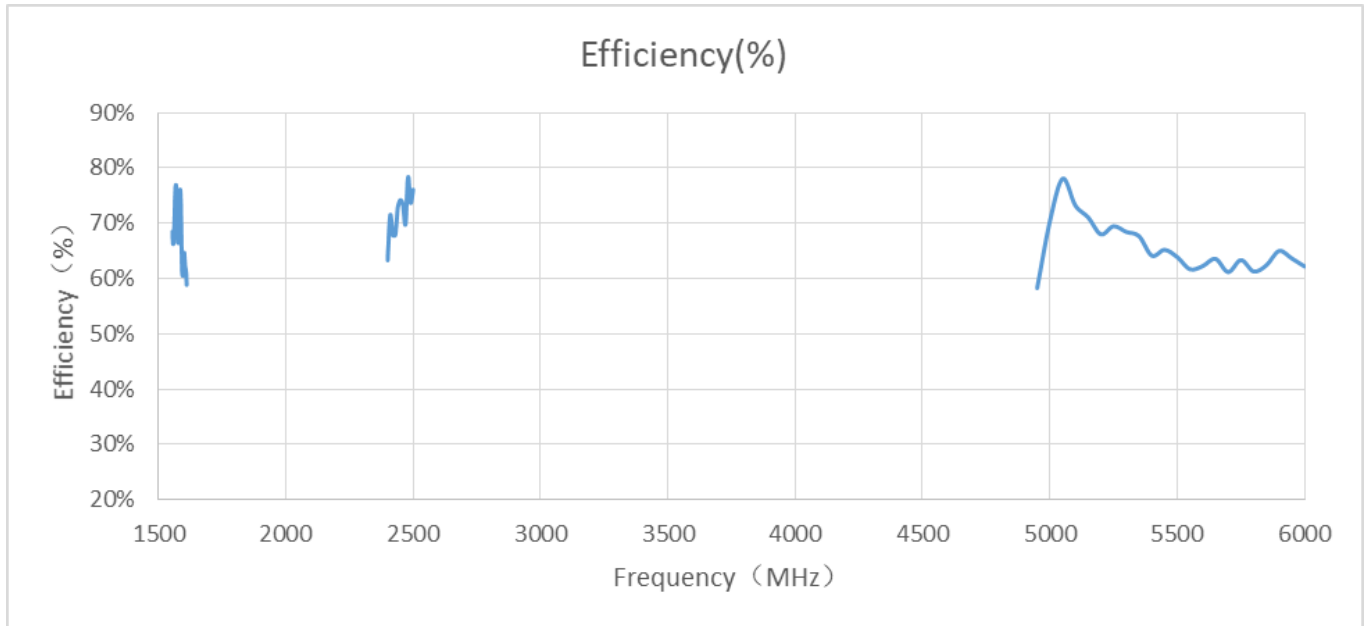
Series: CERAMIC CHIP

Description: GNSS-DUAL WIFI-DSRC ANT

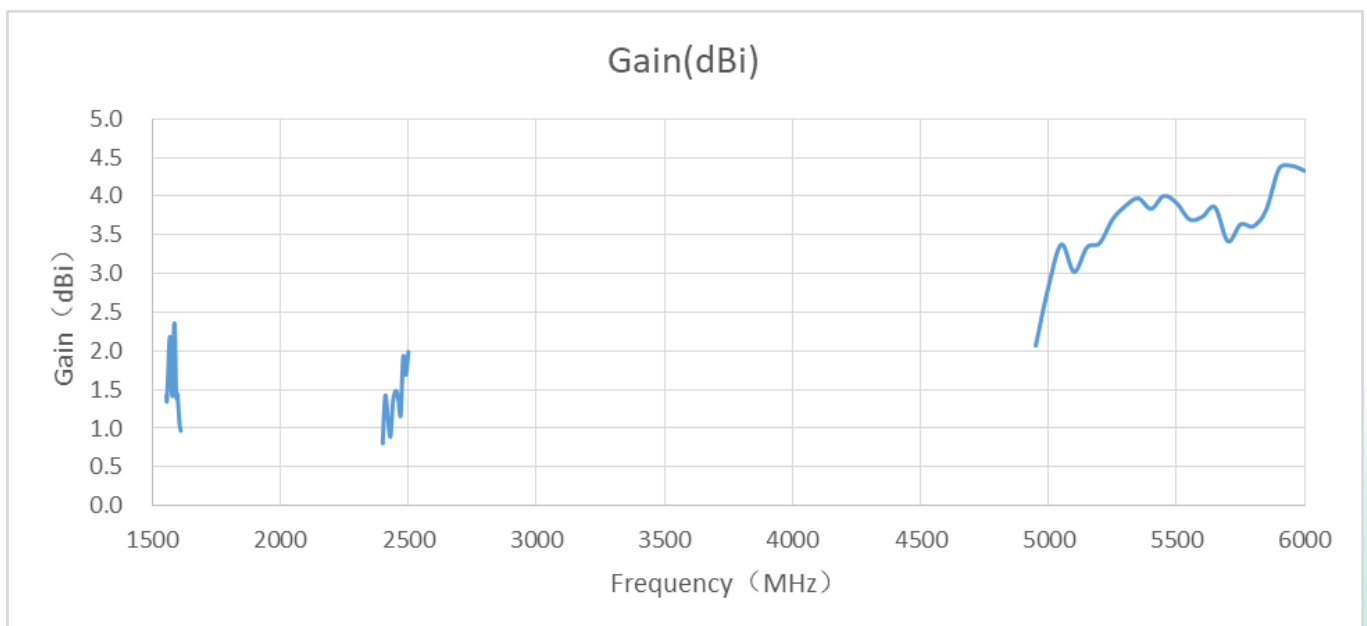
PART NUMBER: W3095

CHARTS

Typical Antenna Total Efficiency



Typical Antenna Peak Gain



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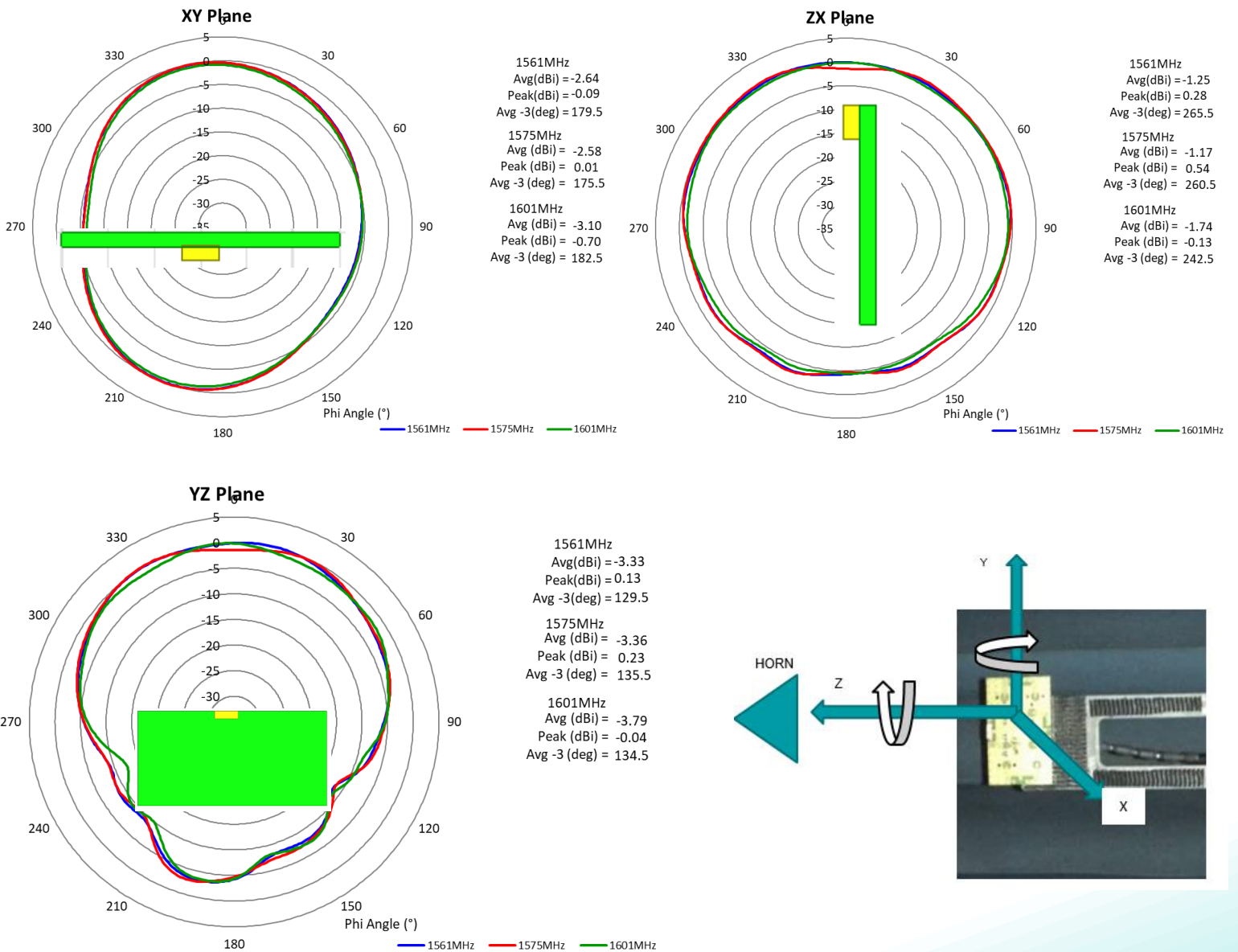
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CHARTS

Typical free space radiation pattern—GNSS



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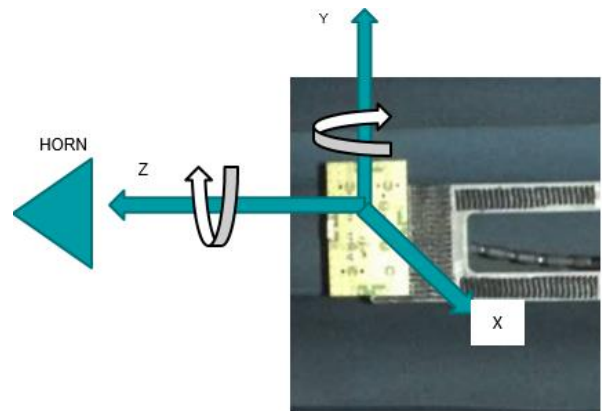
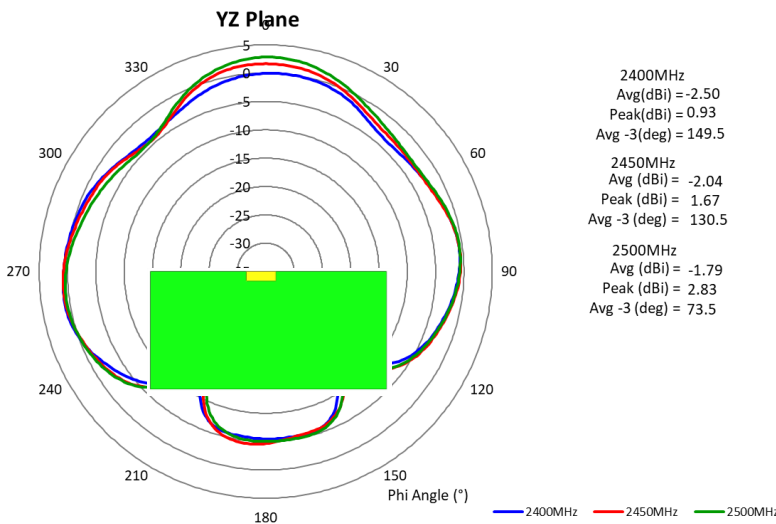
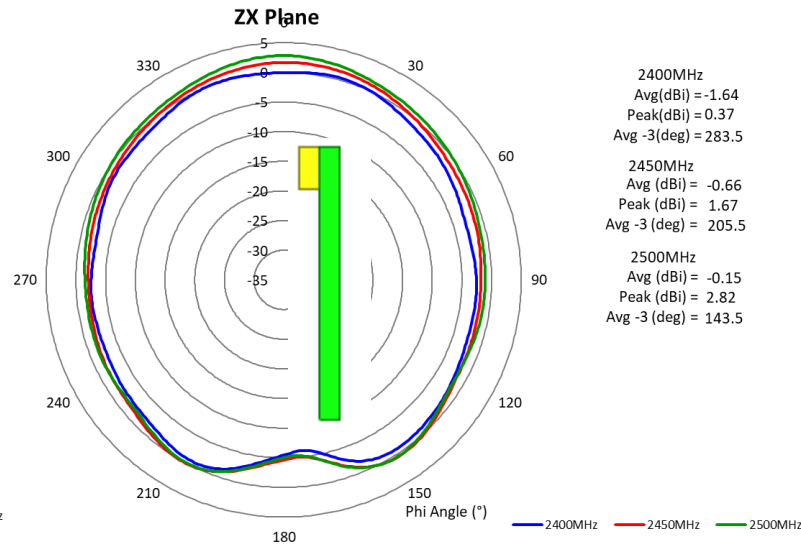
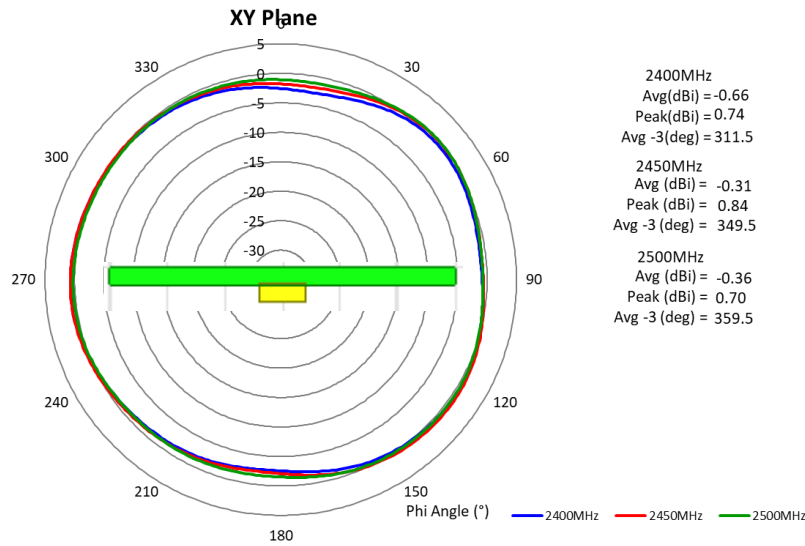
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CHARTS

Typical free space radiation pattern—2.4G



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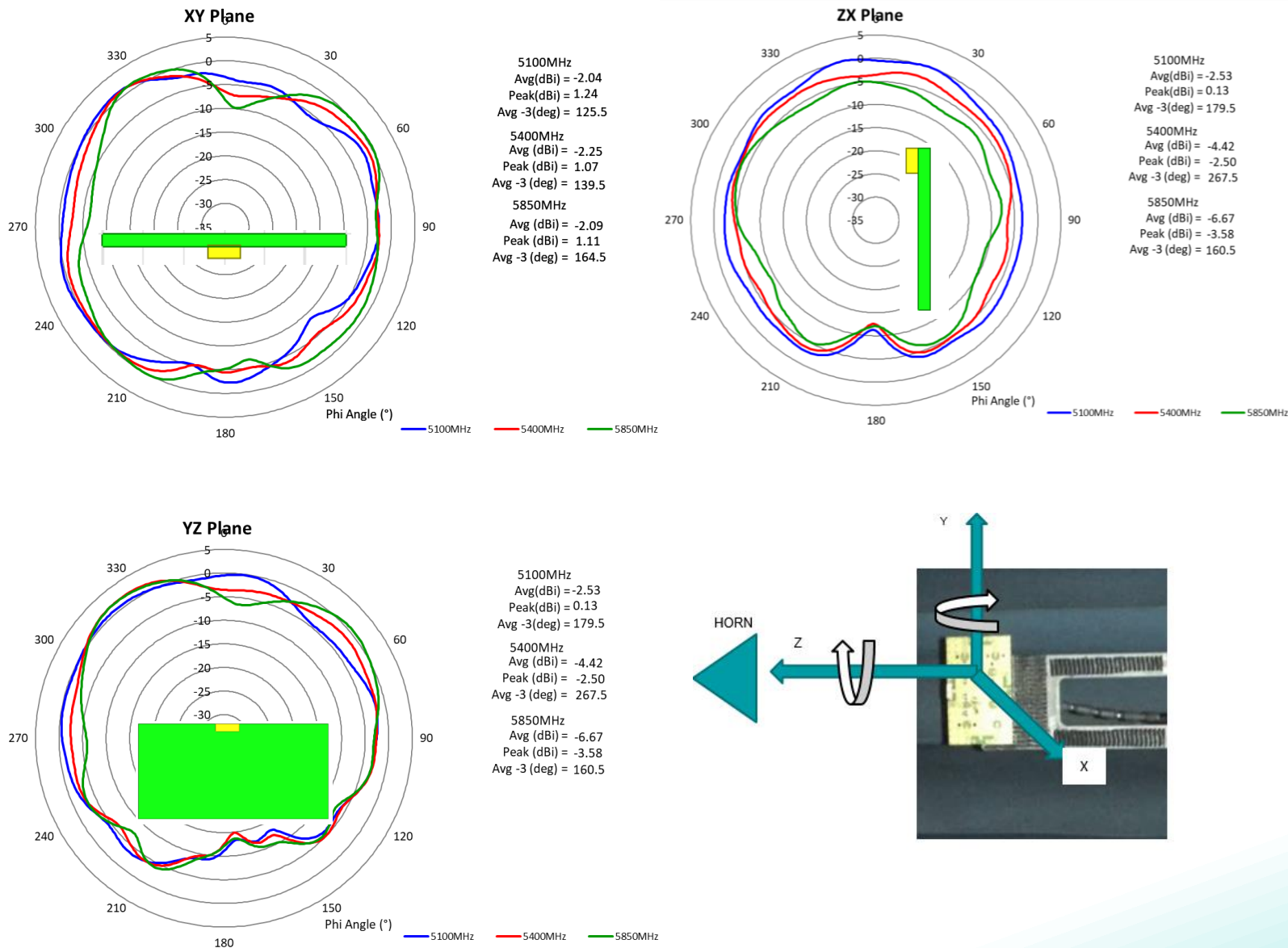
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CHARTS

Typical free space radiation pattern—5G



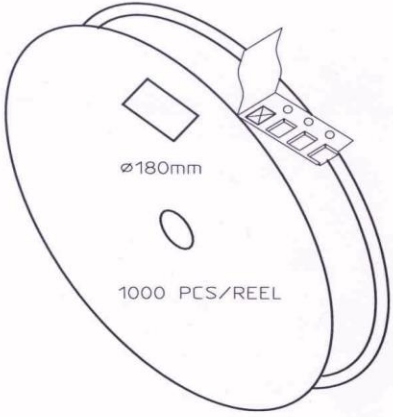
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PACKAGING

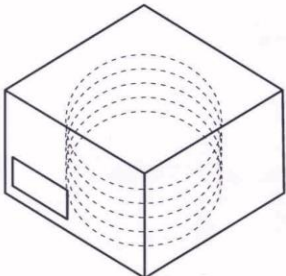


CARRIER TAPE H85-00188
 width=24,00 depth=2.20
 COVER TAPE H85-00159
 width=21.20


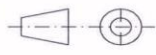
LENGTH OF TAPE:

- Leader section: min 350 mm before component section
- Trailer section: min 40 mm after component section.

Empty part cavities at leader and trailer section of the tape must be sealed with top cover tape.



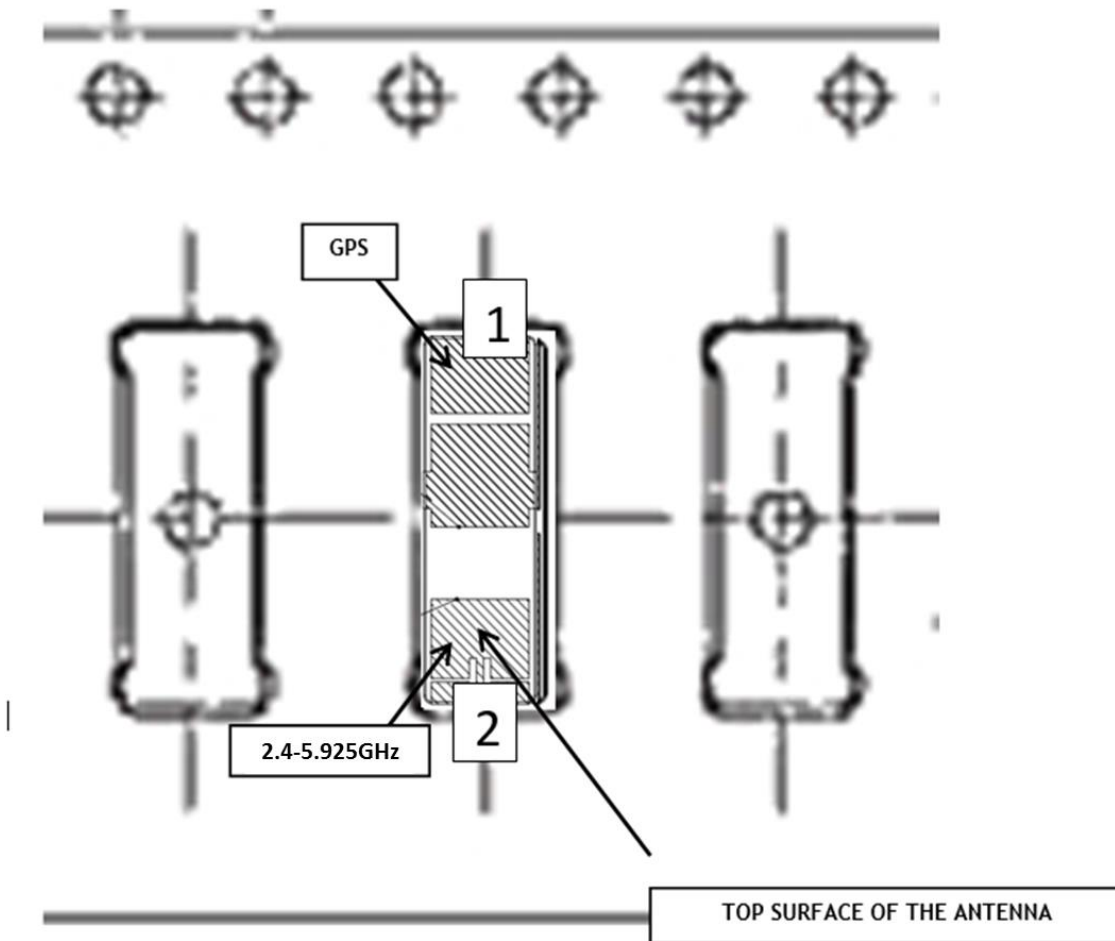
BOX H85-00128 (182x182x125)	1 pcs
- LABEL	1 pcs/BOX
REEL H85-00160 (D180, W28)	4 pcs
- REEL LABEL	1 pcs/REEL

MATERIAL	
HANDLINGS	
 	RATIO
	DRWN 160107 PeHa H
PRODUCT H90-OY113-F01P01	DGNER G
	CHKD F
	APPRD E
	APPRD BY D
	C
DENOMINATION PACKING FORM	B
	A
	VERSION MOD/DATE/NAME

Block Orientation

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

Top view of the carrier tape



单击下面可查看定价，库存，交付和生命周期等信息

[>>Pulse\(普思\)](#)