

2J4407P

(DATASHEET)

Type
Frequencies

Combined antenna
TETRA (380 - 500 MHz)
GPS (1575.42 MHz)

Mounting
Revision

Glass Mount
00



P. Tipul



D. Noble

1. SPECIFICATION

1.1. *Electrical Specifications*

Navigation (Cable 1)

Frequencies	GPS (1575.42 MHz)
Impedance	50 Ohms
Noise figure	1.15 dB typ.
Polarization	RHCP
LNA Gain	23dB at 3V; 24dB at 5V
Voltage supply	2.7 V - 5.5 V
Current	15mA - 25 mA
Power (max.)	138 mW max.

Tetra (Cable 2)

Frequencies	TETRA (380 - 400 MHz)*
Impedance	50 Ohms
Polarization	Linear
Gain	2.2 dBi typ.
VSWR	<2:1
Power handling	35W

*Center freq. can be tuned up to 500MHz

Environmental

Operating temperature	-40°C to +85°C
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1.2. *Connection Specifications*

Cable 1 (Navigation):

Connector type: SMA male
Cable: RG174 twin
Cable length: 500 cm

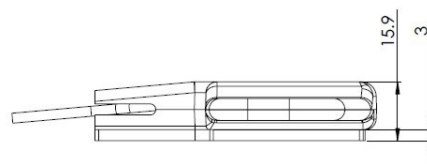
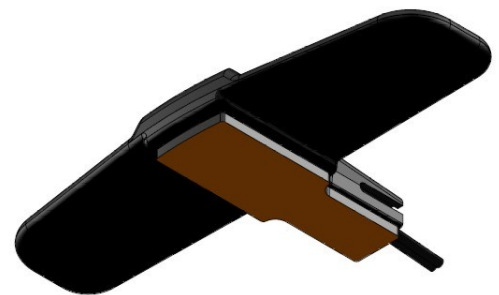
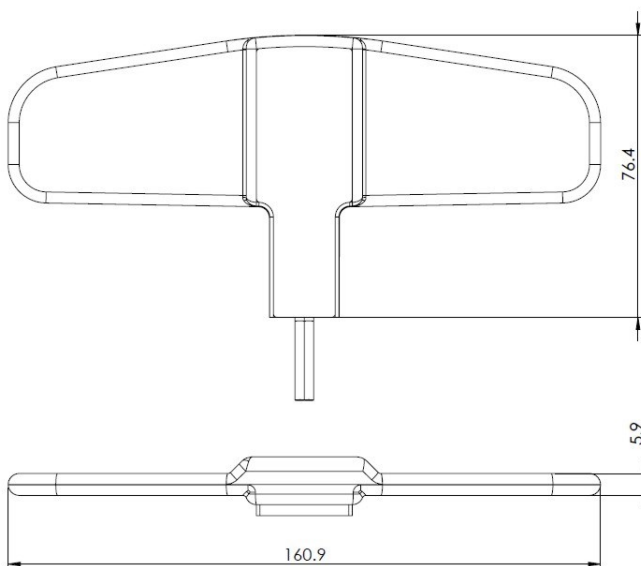
Cable 2 (Tetra):

Connector type: BNC male
Cable: RG174 twin
Cable length: 500 cm

For different cable length and connector type ask our sales team.

1.3. Mechanical Specifications and Dimensions

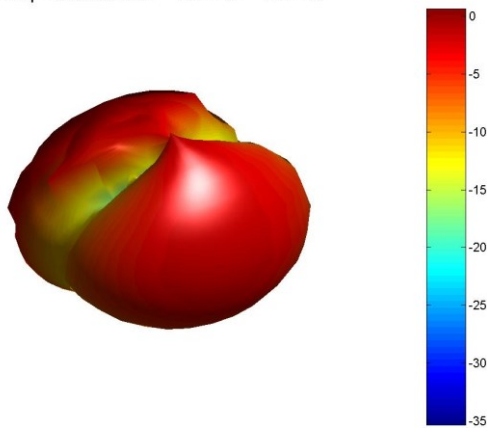
Material:	ABS
Max. dimensions:	76.4mm x 15.9mm x 160.9mm (L x T x W)
Weight:	195 g 'weight counted with cable above'
Colour:	Black (for different colours please ask our sales team)



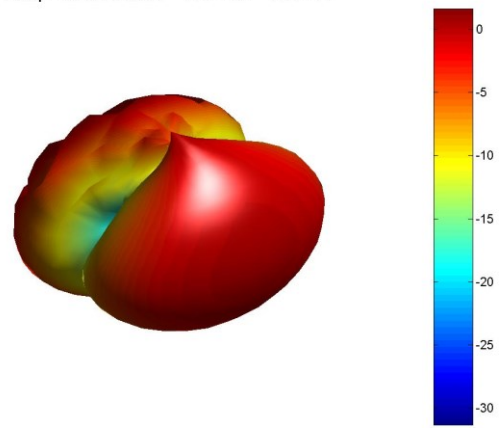
2. MEASUREMENT

2.1. *Antenna gain and radiation pattern*

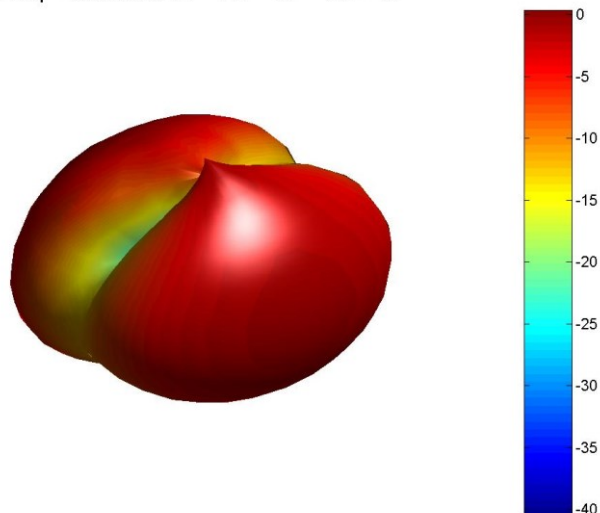
Start: 380MHz
Freq = 0.3805GHz Az= 45 EL= 45



Stop: 400MHz
Freq = 0.4005GHz Az= 45 EL= 45



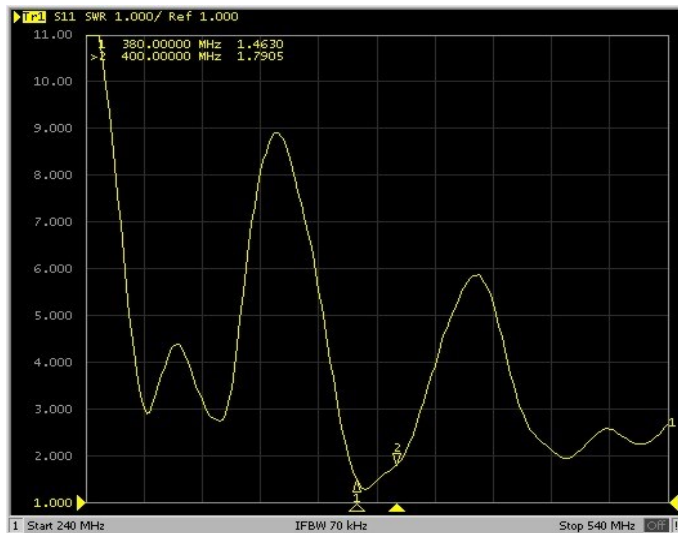
Center 390MHz
Freq = 0.3905GHz Az= 45 EL= 45



2.2. S11 results

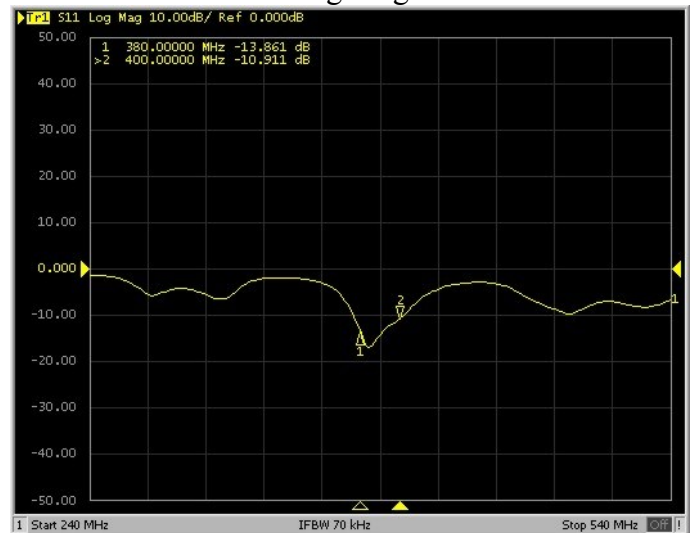
- Tested on glass in test room

VSWR



Tested with 1m of RG174 Twin.

Log Mag

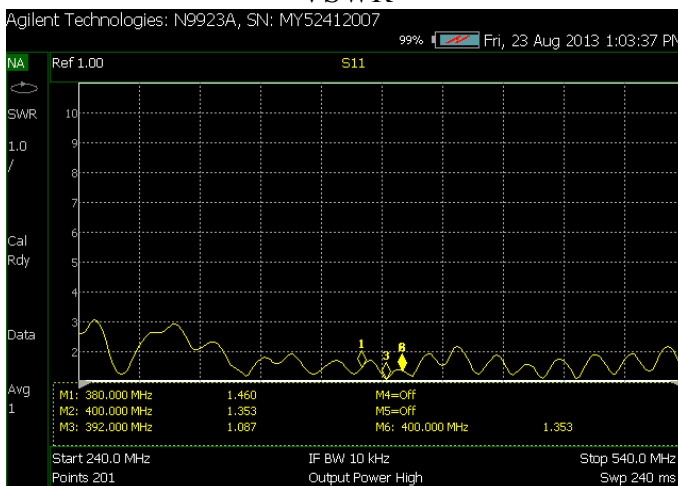


Tested with 1m of RG174 Twin.

- Tested inside of car

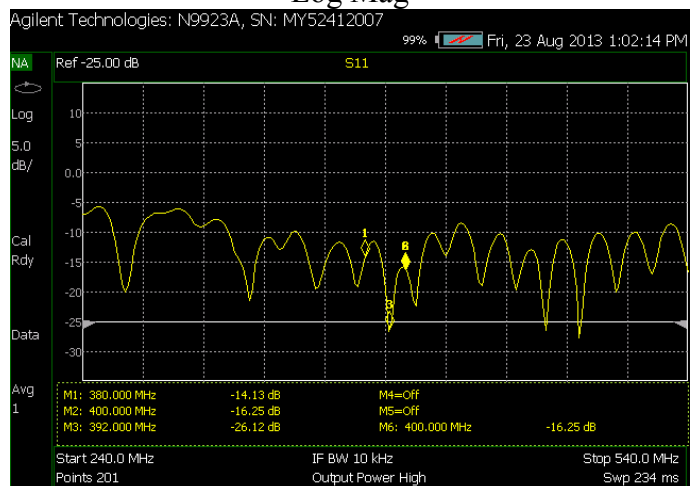


VSWR



Tested with 5m of RG174 Twin.

Log Mag



Tested with 5m of RG174 Twin.

3. IMAGES

