

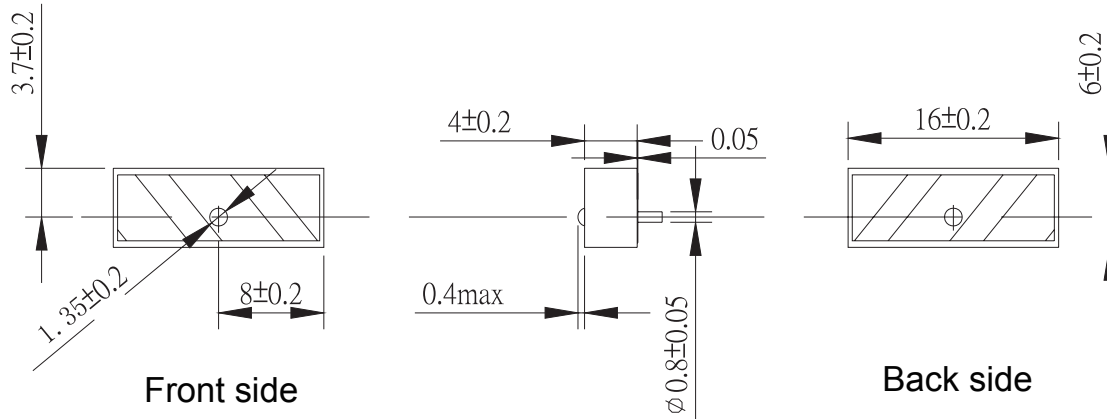
AQ012 GPS Patch Antenna

Passive Ceramic GPS Patch Antenna 16 x 6 x 4 mm

Product No. AQ01253GPS000



Dimensions (unit: mm)



Application

- Navigation systems or position tracking systems.
- Hand-held devices when GPS function is needed, e.g., Bluetooth GPS Receiver, Smart phone, Personal Digital Assistant (PDA), Portable Navigation Device (PND).

Features

- Stable and reliable in performances
- Low temperature coefficient of frequency
- Compact size
- RoHS compliance

Electrical Specification

Patch

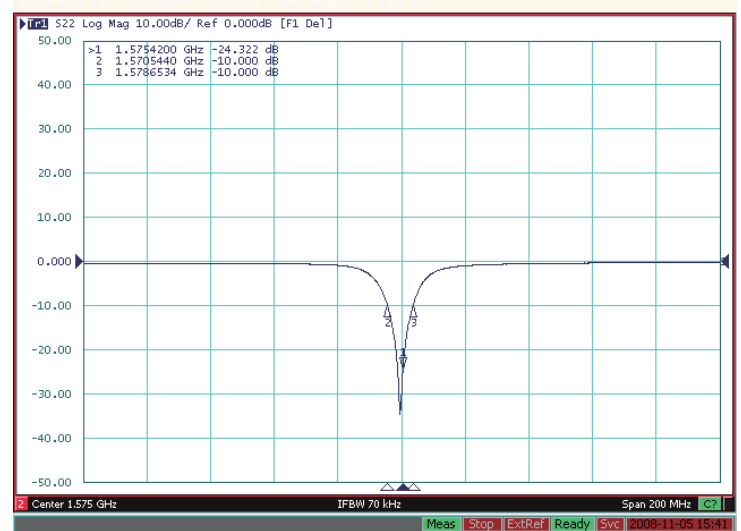
Outline Dimensions	16 × 6 × 4 mm
Ground Plane	20 x 6 mm
Center Frequency*	1575.42 ± 2 MHz
Bandwidth (10dB return loss)	6.4 MHz Min.
VSWR	2 Max.
Impedance	50 Ω
Polarization	R.H.C.P
Peak Gain	-4.4 dBic typ.
Axial Ratio	3 dB typ.
Temperature Coefficient of Frequency	0 ± 20 ppm/°C Max. (at -20 ~ 80 °C)

*Center frequency will be offset to working frequency according to the conditions of user's ground plane and radome.

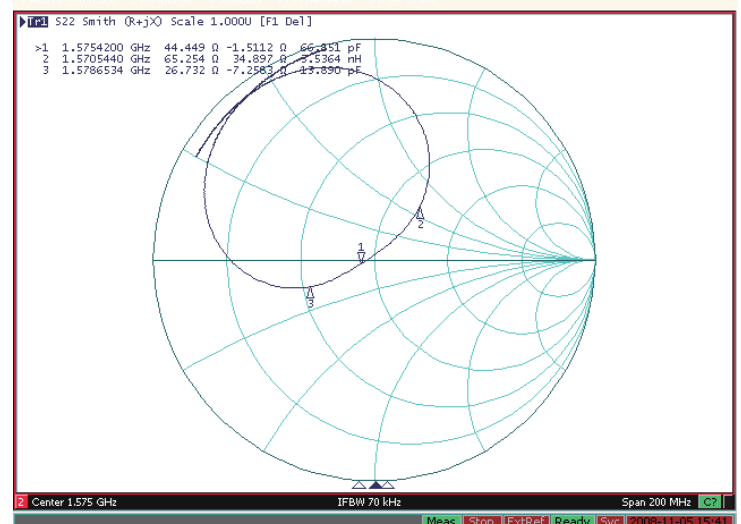
Test Report

Ground Plane in 20 x 6 mm

S11 Return Loss



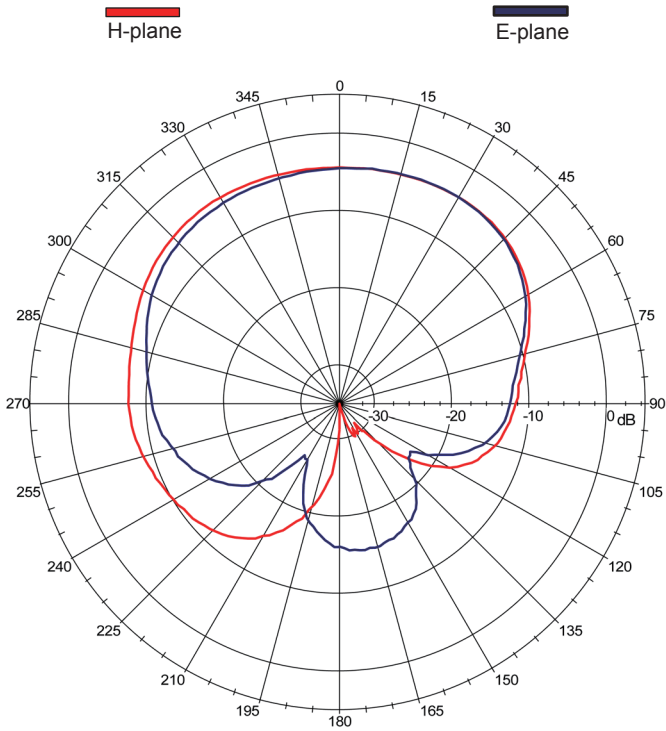
Smith Chart



Test Report

Ground Plane in 20 x 6 mm

Radiation Pattern



Right hand circular polarized signal $f_0=1575.42\text{MHz}$