

GPS Patch Antenna - J Type

Features

1. High Antenna Gain up to +2.5 dBic.
2. Antenna tuning in special design is available.
3. No connectors needed, fed by direct pad.
4. Stable Frequency Temperature Coefficient ($\pm 20\text{ppm}/^\circ\text{C}$), from -40°C to 85°C)



Application

Automotive, recreational , military, marine , aviation , surveying

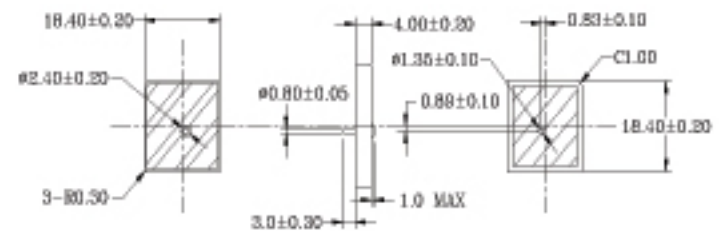
Part Number

SeriesType	Dimensions	Center Frequency
PA1575MZ50	J	04

- Series Type
- Dimensions J — 19*19*4mm
- Center Frequency

XX	f_0	XX	f_0
00	1576	11	1587
01	1577	12	1588
02	1578	13	1589
03	1579	14	1590
04	1580	15	1591
05	1581	16	1592
06	1582	17	1593
07	1583	18	1594
08	1584	19	1595
09	1585	23	1599
10	1586		

Dimensions

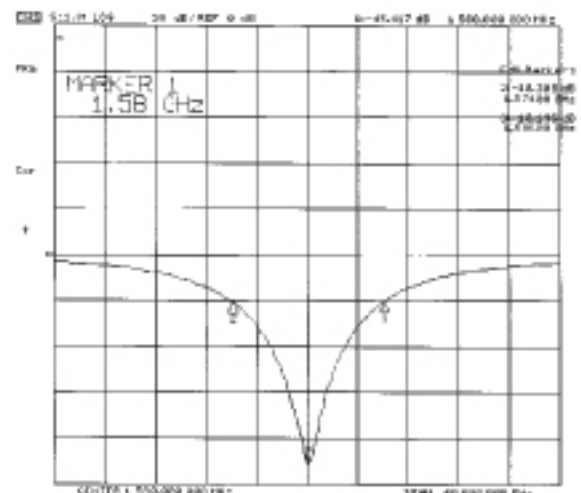


Specifications

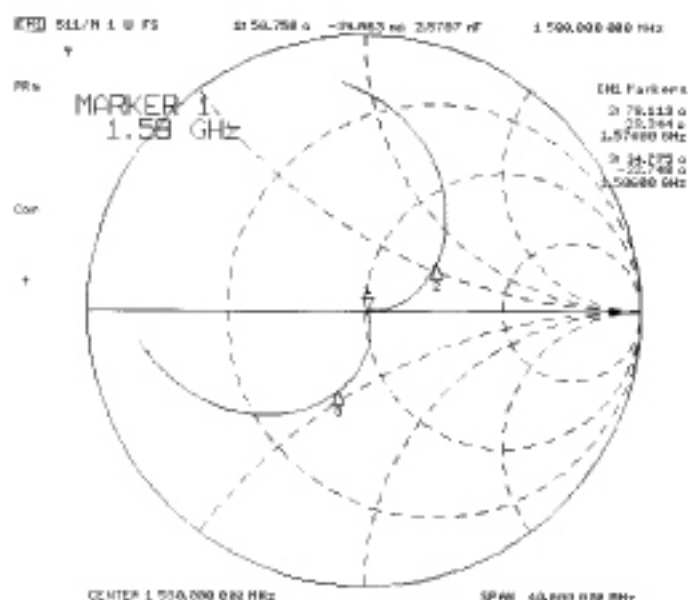
Characteristics	Specification	Unit	Conditions
Center Frequency f_0	1580.0*	MHz	with 50mm Square ground plane
Bandwidth	9.0 min	MHz	Return Loss $\leq -10\text{dB}$
Gain at Zenith	+2.5 typ	dBic	@1580.0 MHz*
Gain at 10° elevation	-4.5 typ	dBic	@1580.0 MHz*
Impedance	50	Ω	
Frequency Temperature Coefficient	0 ± 20	ppm/ $^\circ\text{C}$	-40°C to $+85^\circ\text{C}$

Data Charts

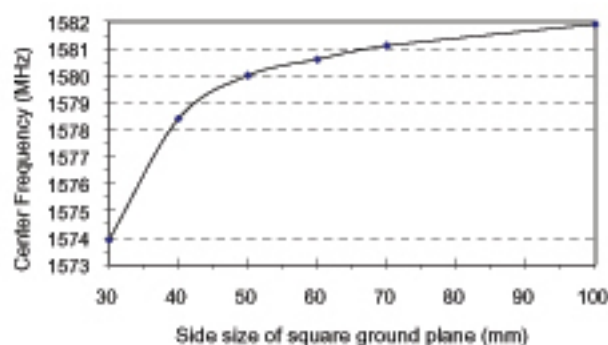
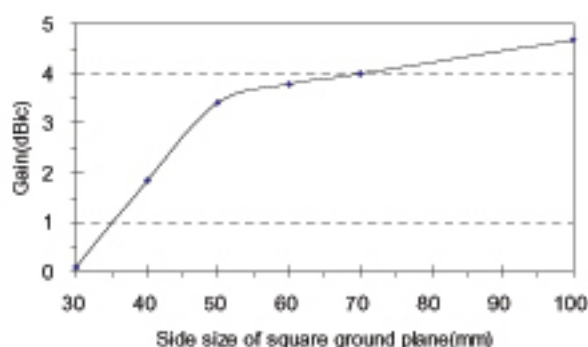
1. Return Loss Characteristics



2. Measured Input Impedance on a Smith Chart

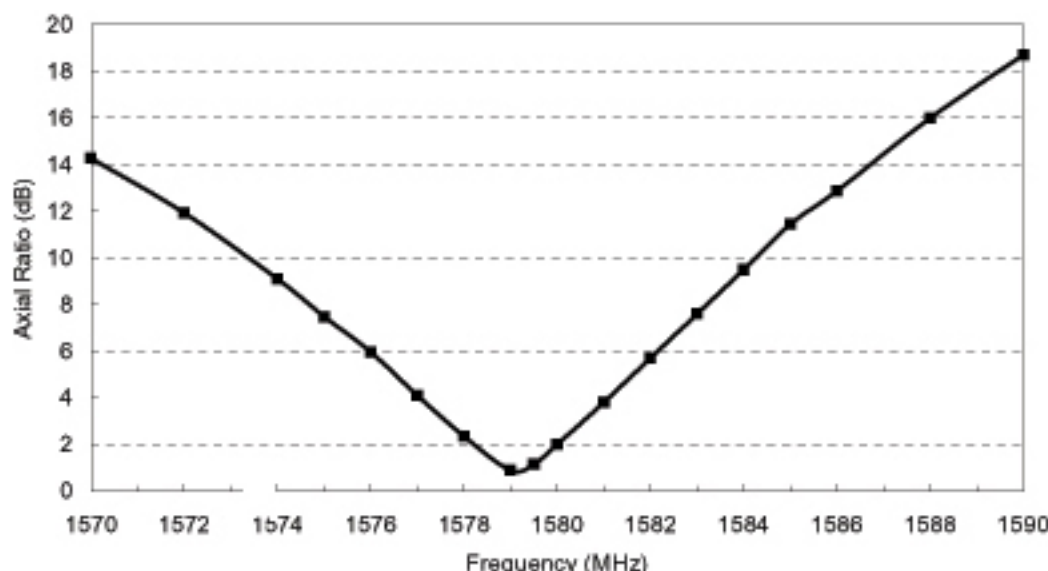


4. Center Frequency vs Ground Plane



3. Measured Axial Ratio

(For example : 1580MHz)



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