



JDGA

GPS antennas for demanding requirements

**JDGA Ceramic Patch SMT GPS Antenna
15 X 15 X 4mm
Available Frequencies 1576MHz to 1598MHz**



Typical Electrical Properties

Center Frequency	1585MHz \pm 3.0MHz (50 X 50 ground plane)
Bandwidth	5.0MHz (min)
Return Loss	\leq -10dB
Gain @ zenith	+1.0dB (typ)
Gain @ 10° elevation	-7.0dB (typ)
Polarization	RHCP
Impedance	50 ohm
Frequency Temperature Coefficient	0 \pm 20ppm/C° (-40°C to 85°C)
Dielectric Constant K	65 \pm 2.5
Quality Factor, Q (=1/tan)	\geq 5000@9GHz
Temperature Coefficient of Resonant Frequency	0 \pm 20ppm/C° (-40°C to 85°C)

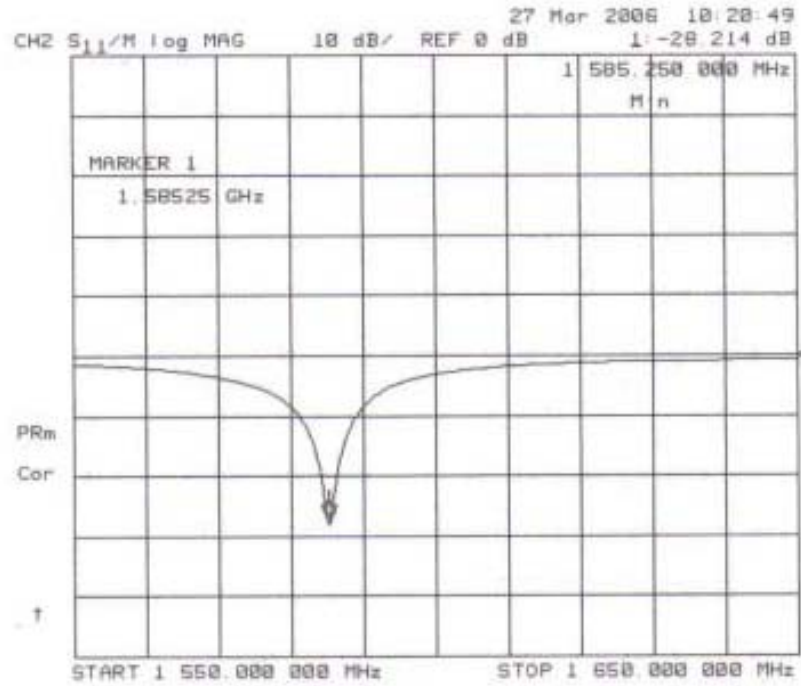




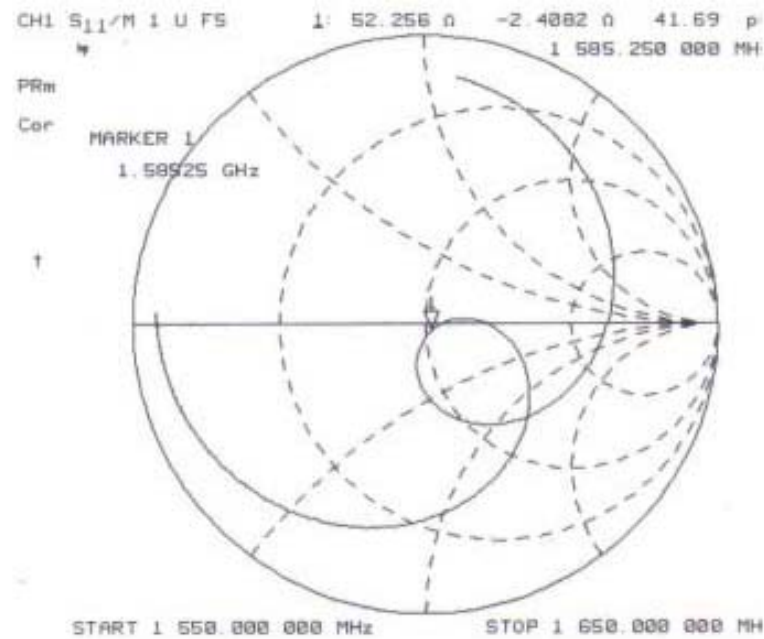
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Reflection Coefficient



Smith

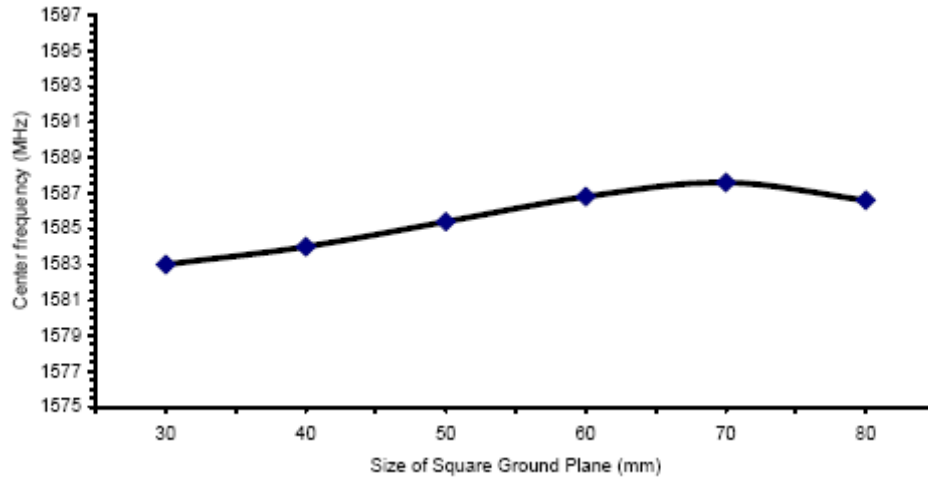




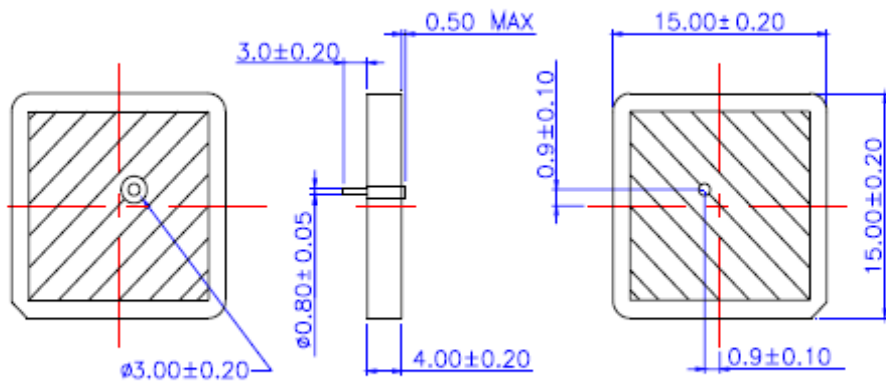
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Center Frequency vs Ground Plane



Mechanical Dimensions



Unit : mm



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PART NUMBERS	FREQUENCY MHz
G150476P	1576
G150478P	1578
G150480P	1580
G150482P	1582
G150484P	1584
G150486P	1586
G150488P	1588
G150490P	1590
G150492P	1592
G150494P	1594
G150496P	1596
G150498P	1598