



Low Noise Amplifier Specifications

Nominal Impedance: 50 Ohm
VSWR: 1.5:1 max (at connector)
Nominal Gain: @ 3.3VDC: 28 dB @ 5VDC: 30 dB
Noise Figure: 1.5 dB (typical)
Voltage: 2.7 - 5 VDC
Out-of-band Rejection: +/- 15 MHz: 5 dB +/- 20 MHz: 10 dB +/- 30 MHz: 32 dB +/- 40 MHz: 40 dB

3957D Value Embedded GPS Antenna, NGP

The 3957D GPS antenna is ideal for ruggedized handheld GPS devices, mobile asset tracking equipment and GPS timing applications. This antenna features a custom designed ceramic patch element, a two-stage low noise amplifier and a SAW filter, enabling it to provide great out-of-band signal rejection performance, consistent and clear signal while minimizing loss-of-lock. The 3957D comes in a compact square package.

Features

- 2.7 - 5 V operation
- 15 KV ESD circuit protection
- Ideal for embedded applications

RF/Electrical Specifications

Center Frequency	Gain (typical)	Polarization	Current Draw
1575.42MHz ±10 MHz	3 dBic @ 90° -2 dBic @ 20°	Right Hand Circular	9 mA @ 3.3V 15 mA @ 5V

Mechanical Specifications

Antenna Dimensions	Weight	Shock	Vibration
1.2" x 1.1" x 0.3" (29.5 x 28.4 x 8 mm)	.56 oz (16 g)	Vertical axis 50G Other axes 30G	3 axis, sweep = 15 min 10 - 200 Hz log sweep: 3G

Cable	Connector
6" (15 cm) RG174	Right angle MCX

Environmental Specifications

Temperature Range	Humidity
-40°C to +85°C operating	95% max (non condensing)