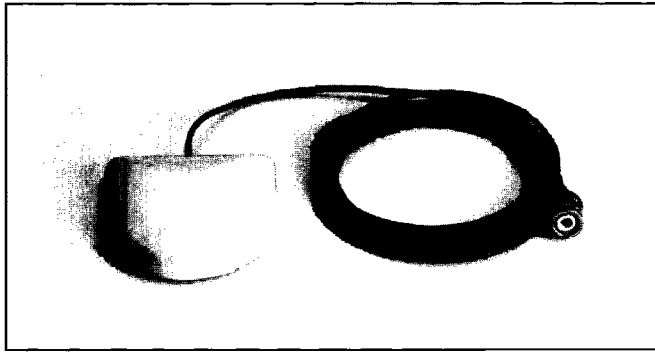


ANT Series



FEATURES

- Utilizes high dielectric constant ($\epsilon_r =$ approx. 21.4) and high Q magnesium titanate ceramic
- Integral GaAs FET LNA
- Excellent temperature performance
- Small size and low profile
- Wide directivity
- Low cost

ELECTRICAL SPECIFICATIONS* – ANTENNA

Model	ANT0008 / ANT0009**	ANT0017
Center frequency	1575.42MHz	1580MHz
Polarization	R.H.C.P.	R.H.C.P.
Absolute gain	0dBi min. above 20° -5dBi min. for 5° to 20°	0dBi min. above 20° elevation -5dBi min. above 5° elevation
Axial ratio	3dB max. for 90°	3dB max. at 90° elevation
VSWR	1.5:1 max.	2:1 max.
Impedance	50Ω	50Ω
Bandwidth	2MHz min. (VSWR ≤ 1.5:1)	2MHz min. (VSWR ≤ 2:1)

ELECTRICAL SPECIFICATIONS* – LNA

Model	ANT0008 / ANT0009	ANT0017
Center frequency	1575.42MHz	1575.42MHz
Power gain (P.G.)	20dB min.	20dB min. (except cable loss)
Noise figure	1.5dB max.	1.5dB max. (except cable loss)
VSWR	2:1 max.	2:1 max.
Impedance	50Ω	50Ω
Passband width	20MHz min. (P.G. 3dB down)	20MHz min. (N.F. ≤ 1.5dB)
Supply voltage	5 ± 0.5V	5 ± 0.5V
Current consumption	20mA max.	20mA max.

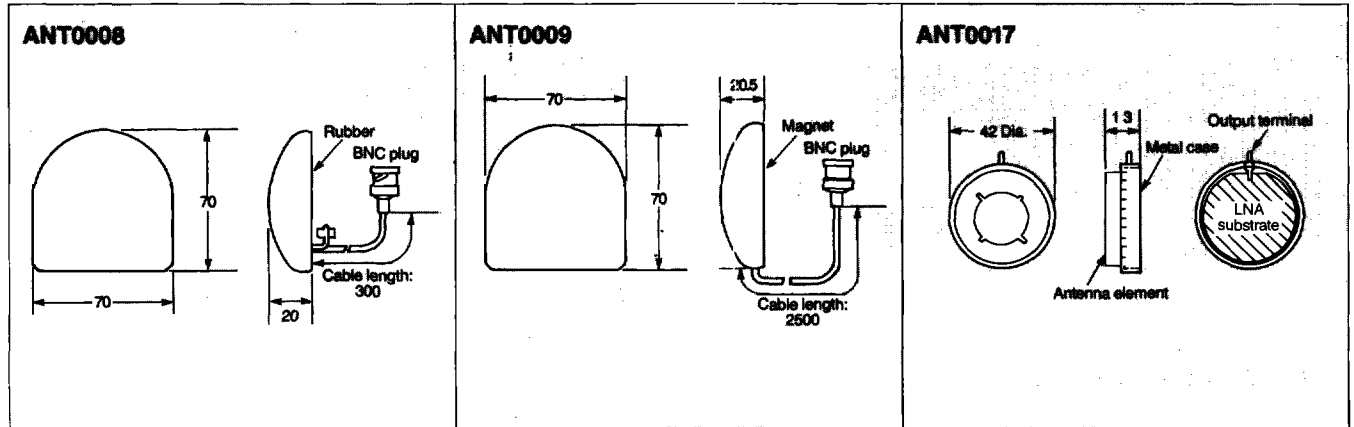
*At 20°C

SPECIFICATIONS – COMPLETE ASSEMBLY

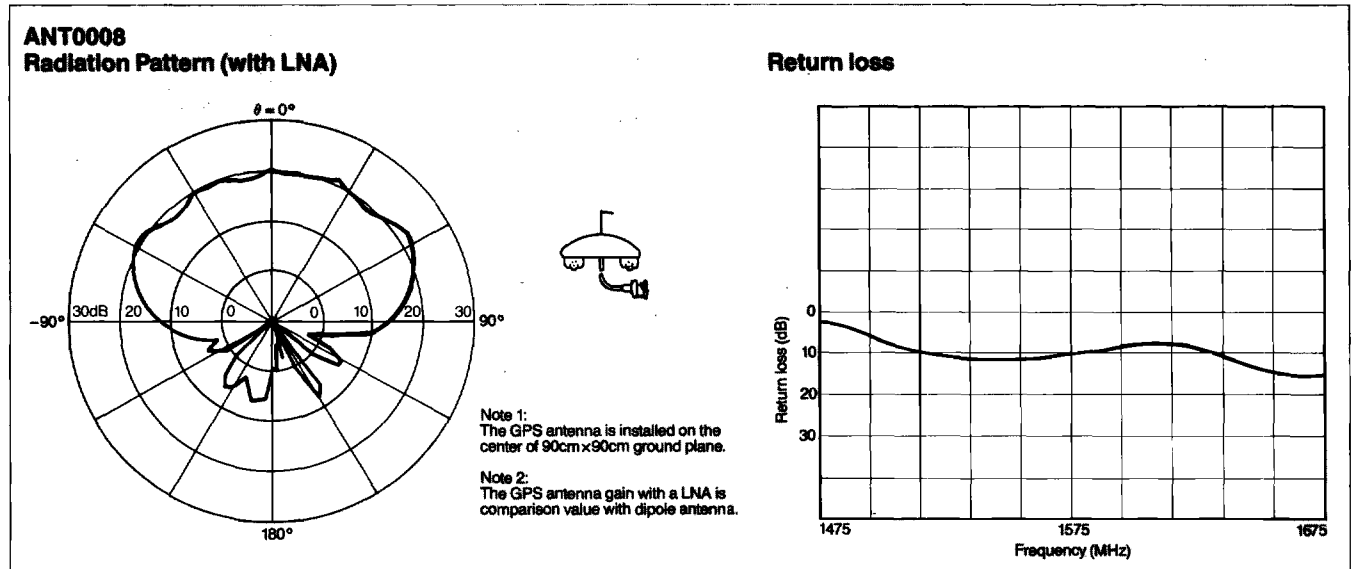
Overall Dimensions	ANT0008 : 70mm × 70mm × 20mm ANT0009 : 70mm × 70mm × 20.5mm	42mm D × 13mm H
Operating Temperature Range	-30°C to +85°C	
Storage Temperature Range	-40°C to +100°C	

**Installed at the center of 90cm × 90cm ground plane

DIMENSIONS: mm



TYPICAL PERFORMANCE



TYPICAL PERFORMANCE

