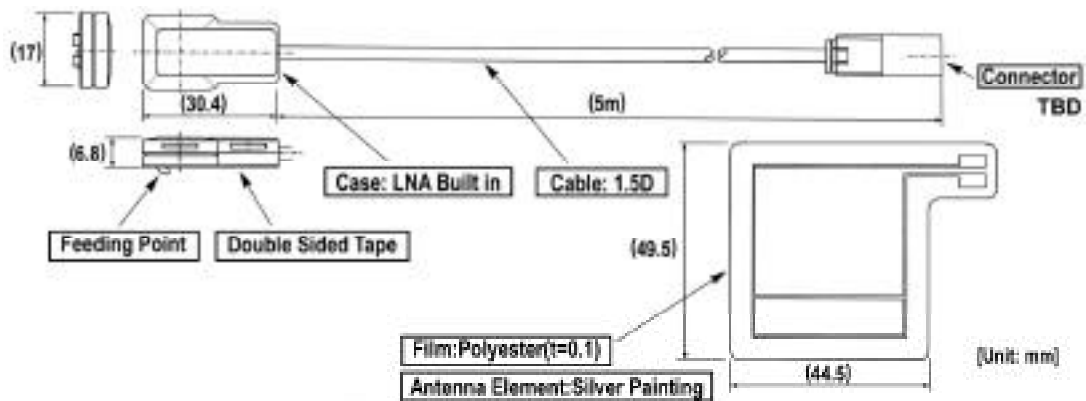
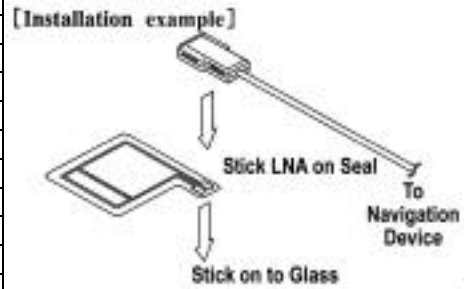


GPS Film Antenna

GFA-501

Specifications

Item	Specifications
Type	Stick on Glass type
Frequency Range	1575.42 ± 1.023MHz
Polarization	Right turn Polarized wave
VSWR	Less than 1.5 (typical)
Gain(Antenna+LNA+Cable)	24dBi typ. (Zenith Direction)
Antenna Gain	0dBi typ. (Zenith Direction)
Pivot Ratio	6dBi typ. (Zenith Direction)
LNA Gain	30dB typ.
LNA Noise Index	2.5dB typ.
Electric Current Consumption	20mA typ (5V)
Operating Temperature Range	-30°C ~ 80°C



Comparison of Patch Antenna and Film Antenna

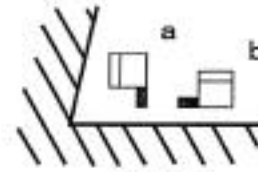
	Patch Antenna	Film Antenna	(Angle of Screen)
Average number of satellites locked	5.269	5.449	25°
	3.697	3.926	30°
	3.594	3.027	35°
	4.194	3.926	45°

Installation Conditions

- (1) Stick the Film antenna on windshield at least 50mm from the metallic frame of a car. (Please refer (1)~(6) of Drawing 1.
- (2) The Film antenna can be oriented either Vertically (See: Drawing 2-a) or Horizontally (See: Drawing 2-b).
- (3) Do not stick on defogger lines. If do so, the average number of satellites locked will be reduced by 0.3~0.5.

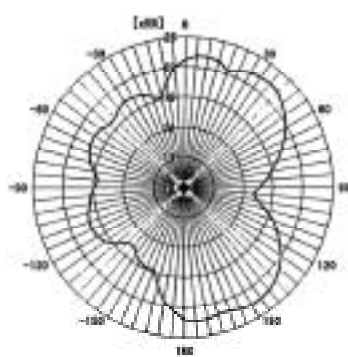


「Drawing 1」

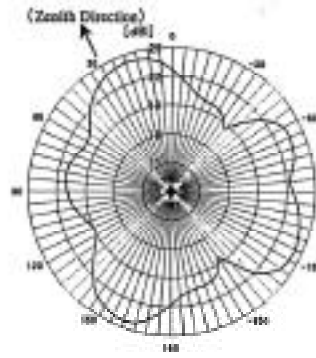


「Drawing 2」

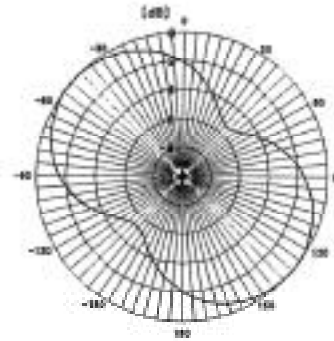
Radiation Pattern & Feature of Pivot Ratio



Radiation Pattern
(Vertical A Direction)



Radiation Pattern
(Vertical B Direction)



Pivot Ratio
(Zenith Direction)

Antenna
+
LNA
+
Cable (5m)

