ALLISCOM
Passive GNSS Antenna
Data Sheet

L1 、L2 、L5 、G1 、G2 、G3 、B1 、B2 、B6 、E1 、E5a 、E5b 、E6

Model No. ALB20

Features
- All L band antenna available
- Wide bandwidth
- Ease of installation

Description The ALB20 features as multi-band, wide bandwidth, high gain and high efficiency passive antenna using an innovative technology. Use in Allis Communications re-radiation systems coordinating with our other line-up amplifiers (AMP20) and GNSS antennas (MBA20) transmit all L-band signals to remote locations, up to 300 meters long.

1. Electrical Specifications

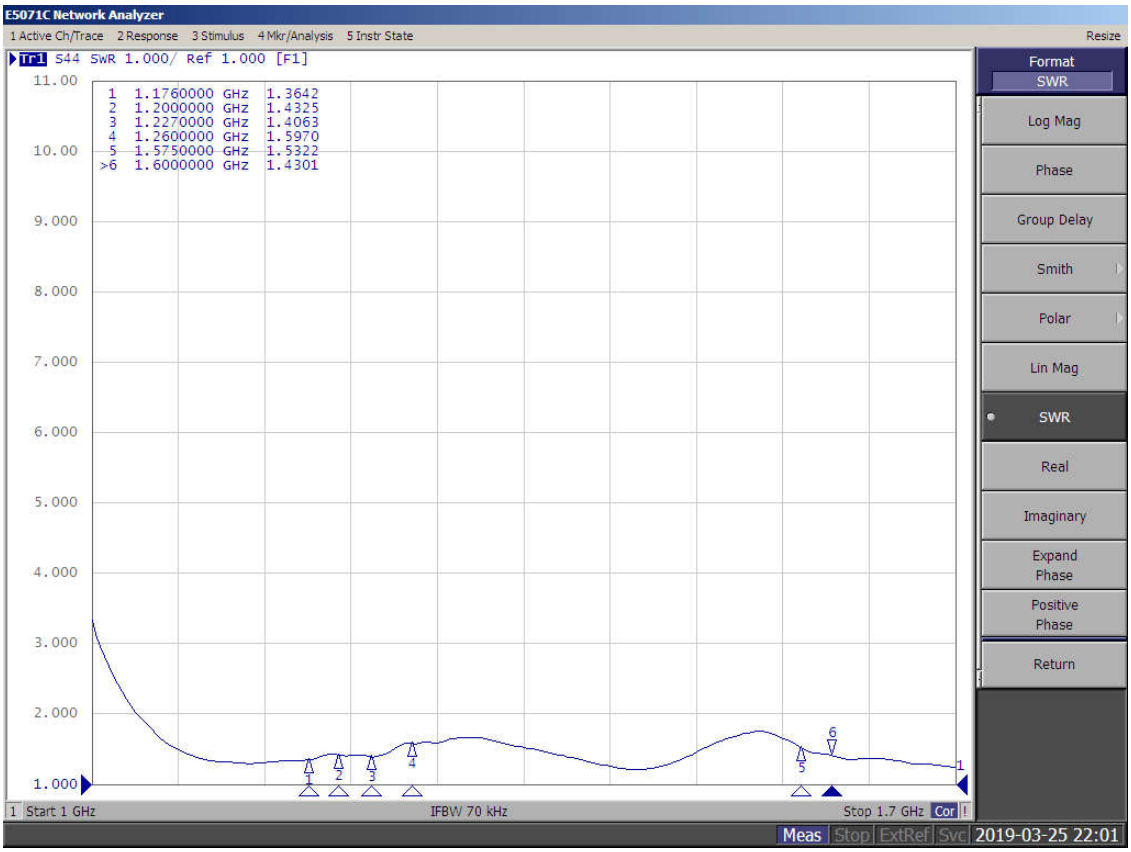
1.1 Electrical Data

Frequency	Lower Frequency :1230±70MHz Upper Frequency: 1585±35MHz	
VSWR	1.8 Max	
Bandwidth	1160~1300MHz ; 1550~1620MHz	
Impedance	50 OHMS	
Axial Ratio	3.0 dB max.	
Frequency	**Peak Gain (RHCP)**	**Efficiency**
1176MHz - (L5、E5a)	3.69dBic	37.44%
1200MHz - (G3、E5b、B2)	3.95dBic	39.57%
1227MHz - (L2)	4.16dBic	40.8%
1260MHz - (E6、B6、G2)	4.85dBic	45.88%
1575MHz - (L1、E1)	5.79dBic	45.1%
1600MHz - (G1、B1)	5.9dBic	47.25%

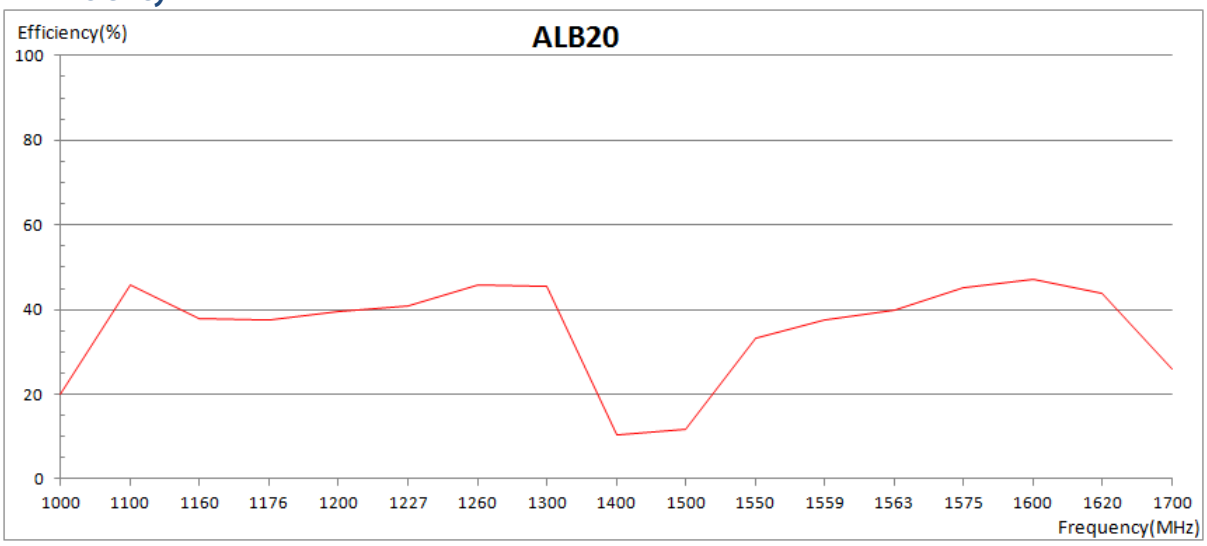
Note: Specifications subject to change without notice

1.2 Antenna Measurement

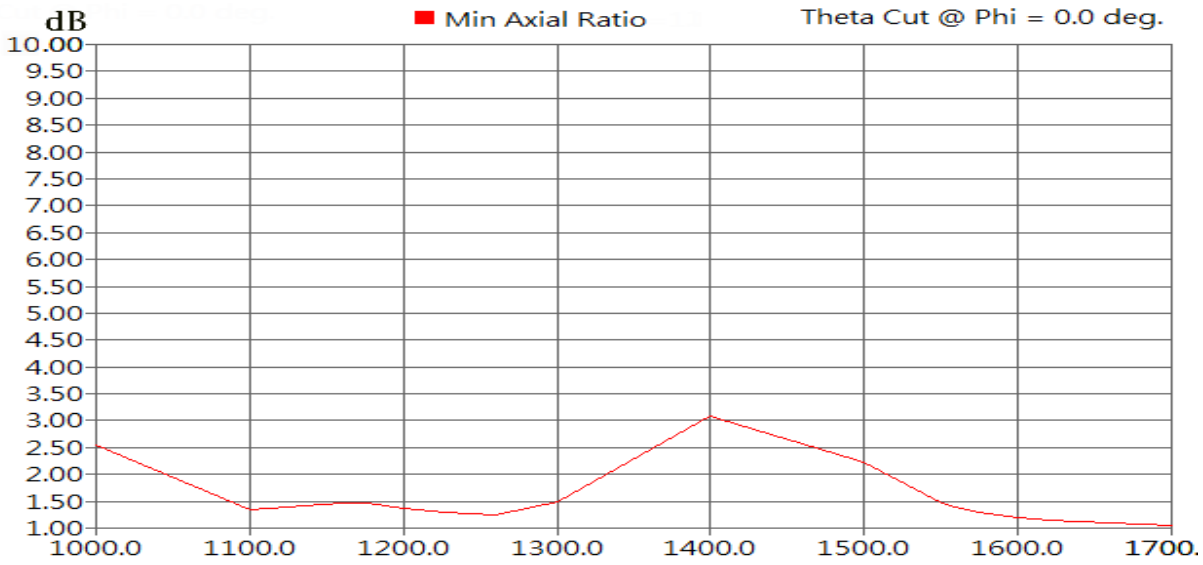
1.2.1 VSWR



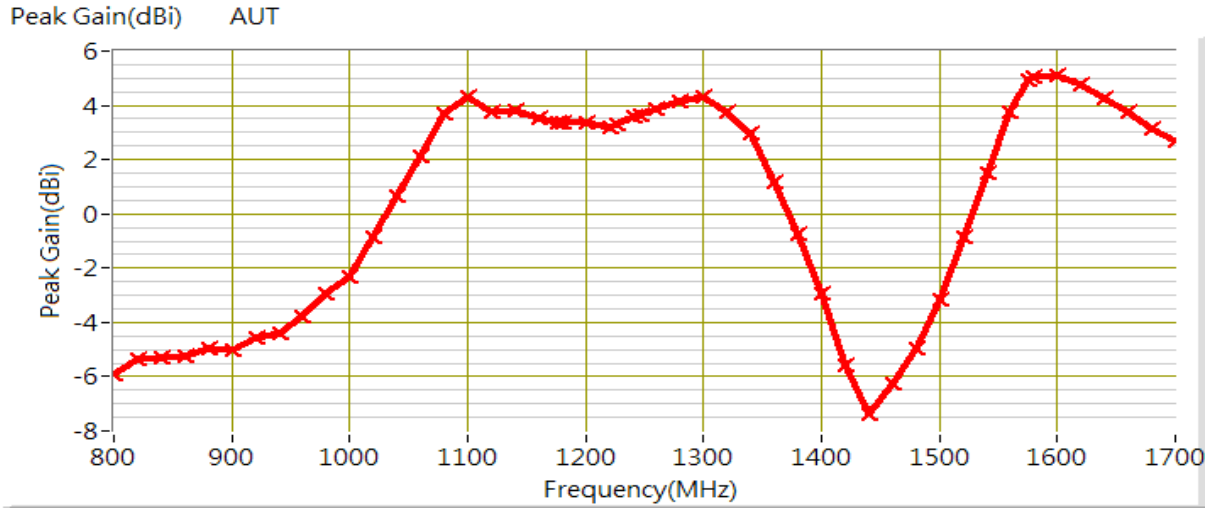
1.2.2 Efficiency



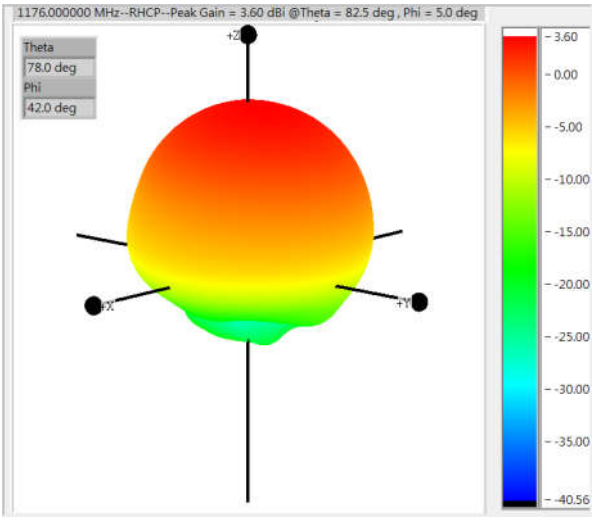
1.2.3 Axial Ratio



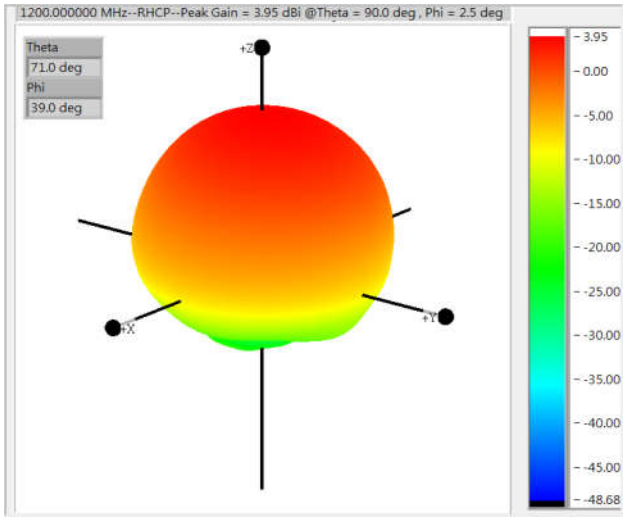
1.2.4 Peak Gain (RHCP)



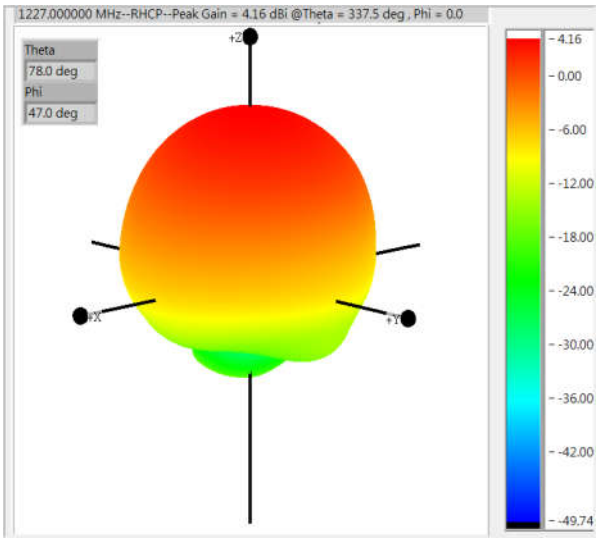
1176MHz Peak Gain (3.6dBic)



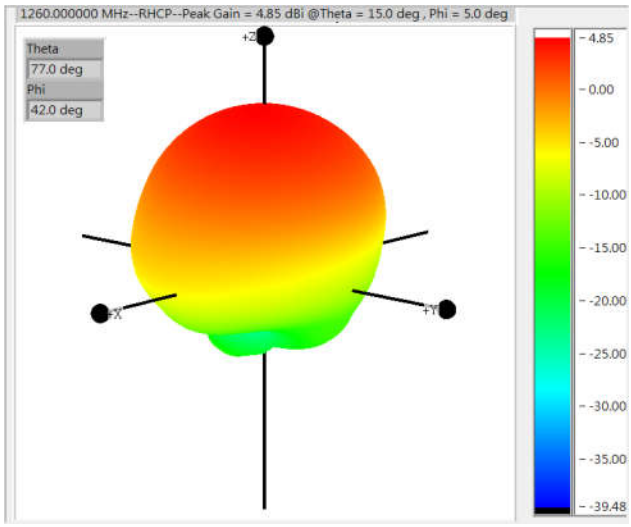
1200MHz Peak Gain (3.95dBic)



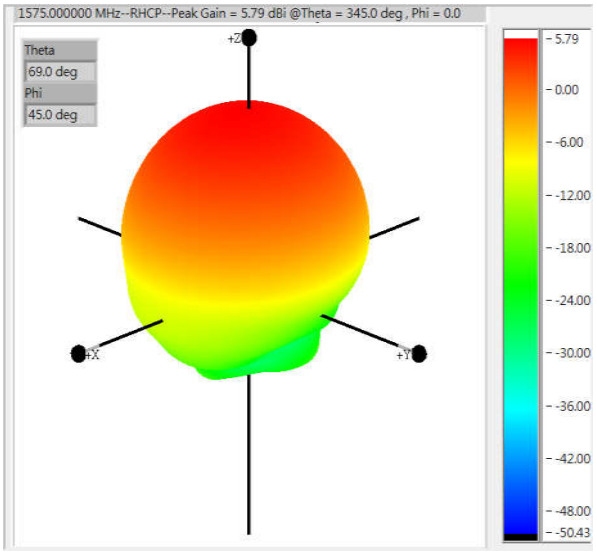
1227MHz Peak Gain (4.16dBic)



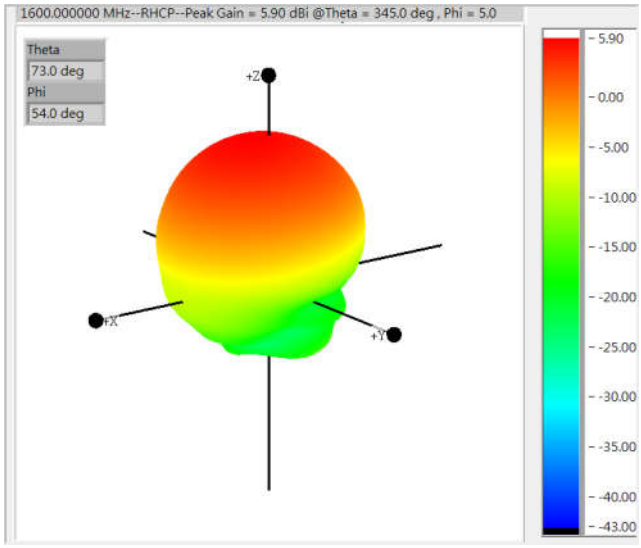
1260MHz Peak Gain (4.85dBic)



1575MHz Peak Gain (5.79dBic)



1600MHz Peak Gain (5.9dBic)

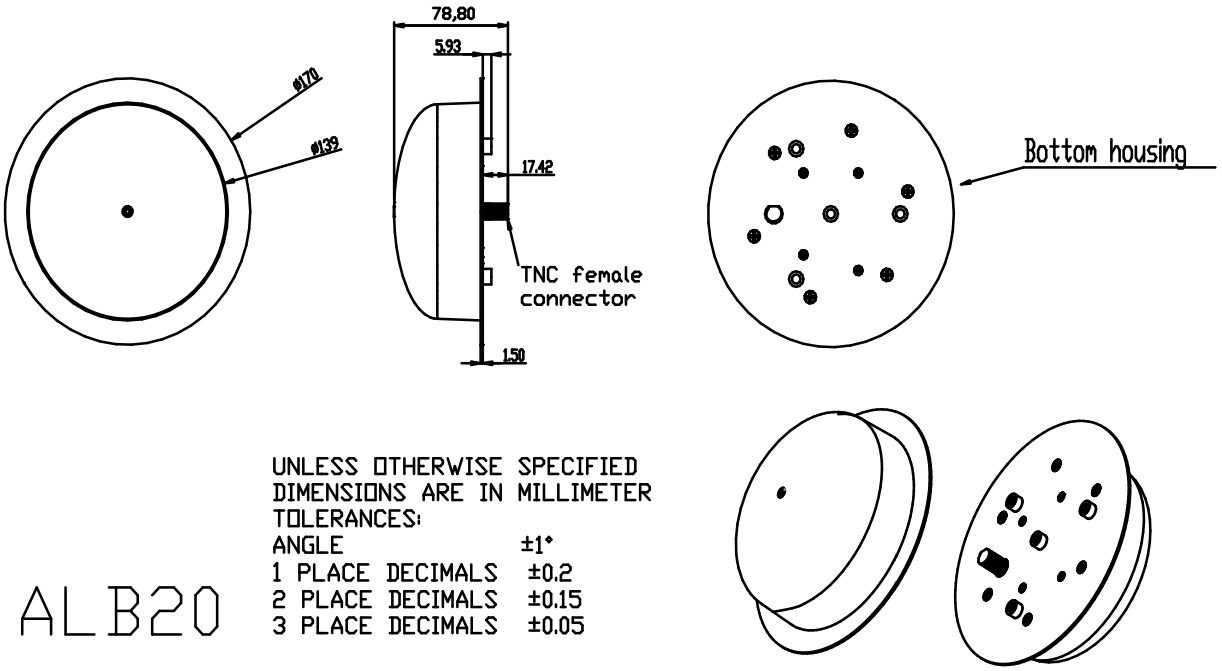


2. Mechanical Specifications

2.1 Mechanical Data

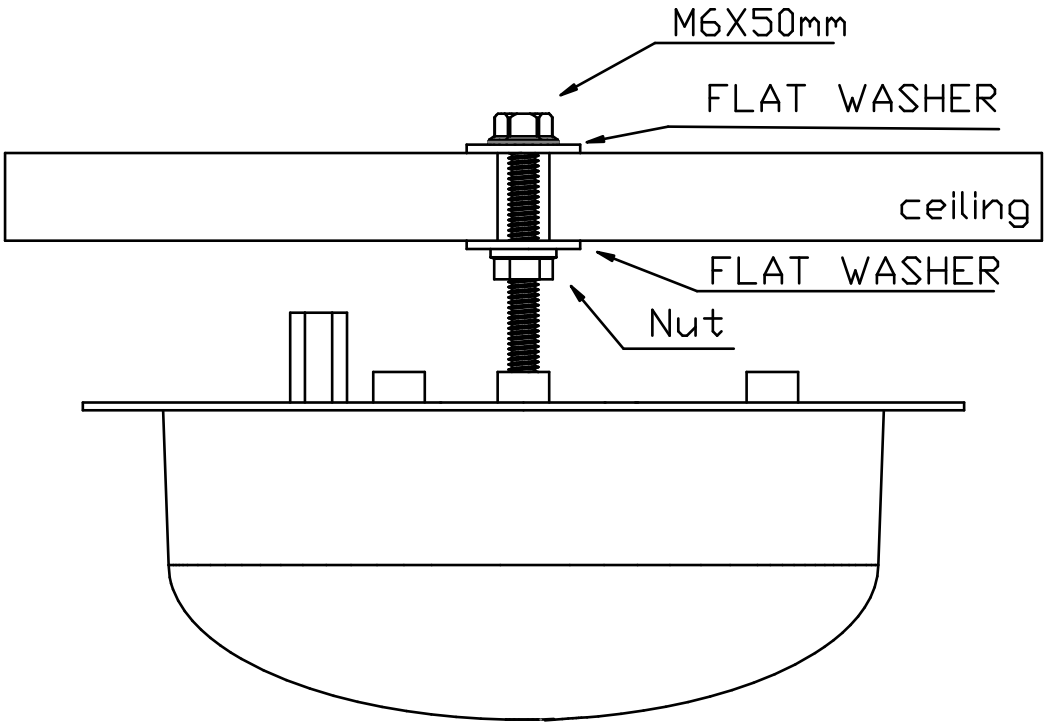
Weight	520 grams Max.
Dimension	170 mm Dia. X 78.8 mm
Connector type	TNC (Female)
Housing Color	Black
Housing Material	Top: ASA / Bottom: Steel
Screw fittings	M6 Screw X 50 mm *1 + FLAT WASHER *2 + Nut*1

2.2 Dimensions



2.3 Appearance

2.4 Installation



3. Environmental Specifications

Working Temperature	-40°C< T< +85°C
Storage Temperature	-50°C< T< +95°C

Note: Specifications subject to change without notice.