

Products information

P/N: B6T-2429-15

Parabolic Antenna 2.4GHz / Gain 29 dBi

1.0 Description

BORNTEK #B6T series family of linearly polarized GRID dish and feed antennas are available in a number of different types to provide a wide selection of gain and beam width characteristics.

All types feature extremely broadband operation, an average VSWR below 1.5:1 and bore-sight squint of less than one tenth of a beam width.

To protect against weather extremes, the antenna feeds has the low loss dielectric plastic and long life cycle to use.

The Feed is the half wavelength of Fc dipole which is fabricated with very close tolerances to ensure the precision of every horn manufactured. Parameters of the log periodic feeds have been selected such that efficient illumination of the parabolic reflector is maintained over the extreme bandwidths.

The main reflector is chosen GRID Alumina and paint with high temperature oven to meeting general out door environmental application. Beside, the MAST is chosen by steel material and plated by hot Zi process with paint for proof durable. Azimuth position, polarization rotators and controls are available to complement dish and feed antennas. All design to MIL-E-16400 requirements.

2.0 Electrical Specification

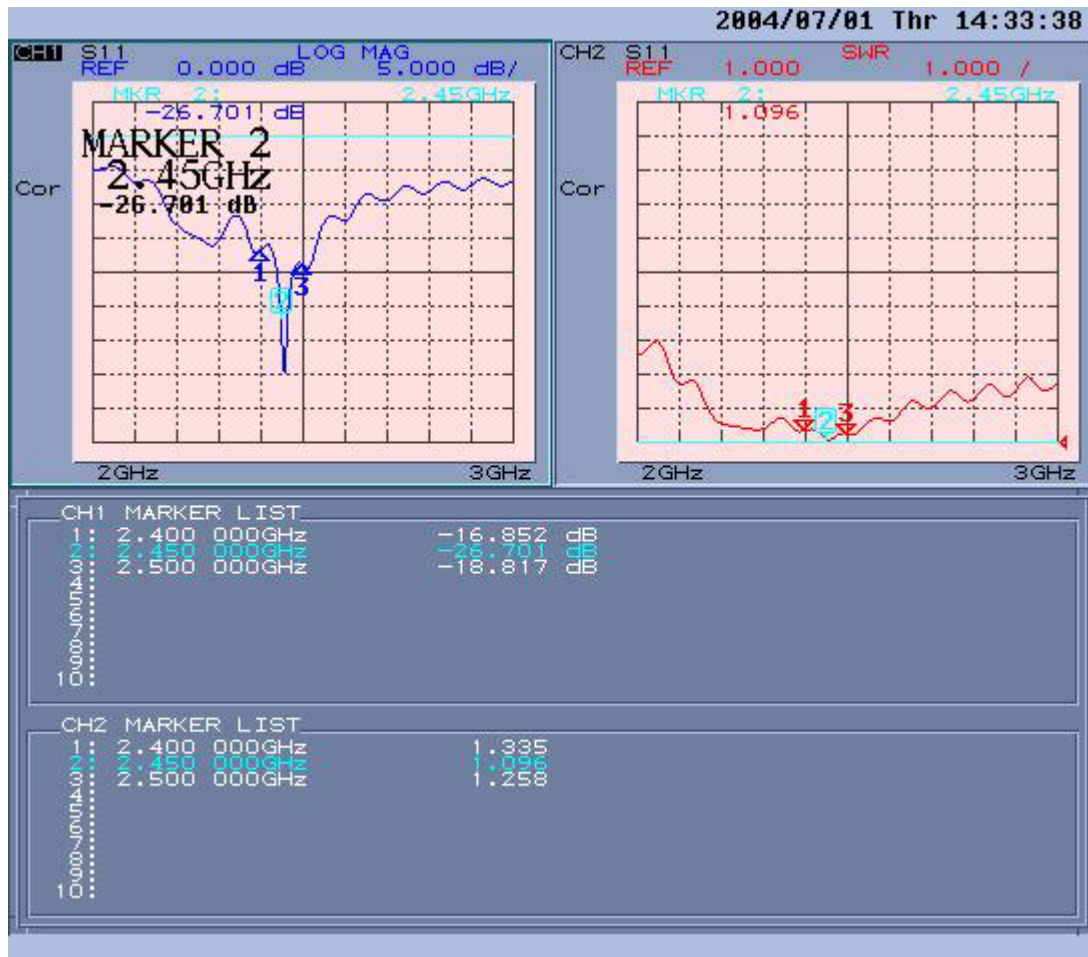
2.1 Freq. Range	2400 ~ 2500 MHz
2.2 VSWR	1.4:1 , Maximum
2.3 Impedance	50 ohms
2.4 Gain	29 dBi, Max.
2.5 Polarization	Vertical or Horizontal
2.6 Half Power Beam Width	
2.6.1 E-Plan	6.5 deg
2.6.2 H-Plan	6.5 deg
2.7 Front to Back Ratio	35 dB, Maximum
2.8 Power Handling	100 watts, CW
2.9 Lightning protection	1/4 DC Ground
2.10 Connector type	N-Type, Female

3.0 Mechanical & Environmental Specification

3.1 GRID Main Dish Diameter	1500 mm
3.2 Weight / Total	16 Kg
3.3 Elevation angle	0 ~ 90 deg.
3.4 Azimuth angle	360 deg
3.5 Wind loading area	
3.5.1 Front	0.92 m ²
3.5.2 Side	0.31 m ²
3.6 Angle of pitch	+/- 12 deg
3.7 GRID dish material	Al with Powder painting
3.8 MAST material	Steel with high temp. Zi plated
3.9 Color	White
3.10 Temperature	-40 deg C ~ +80 deg C
3.11 Humidity	100% @ 25 deg C
3.12 Wind Velocity	210 Km/hr, Maximum

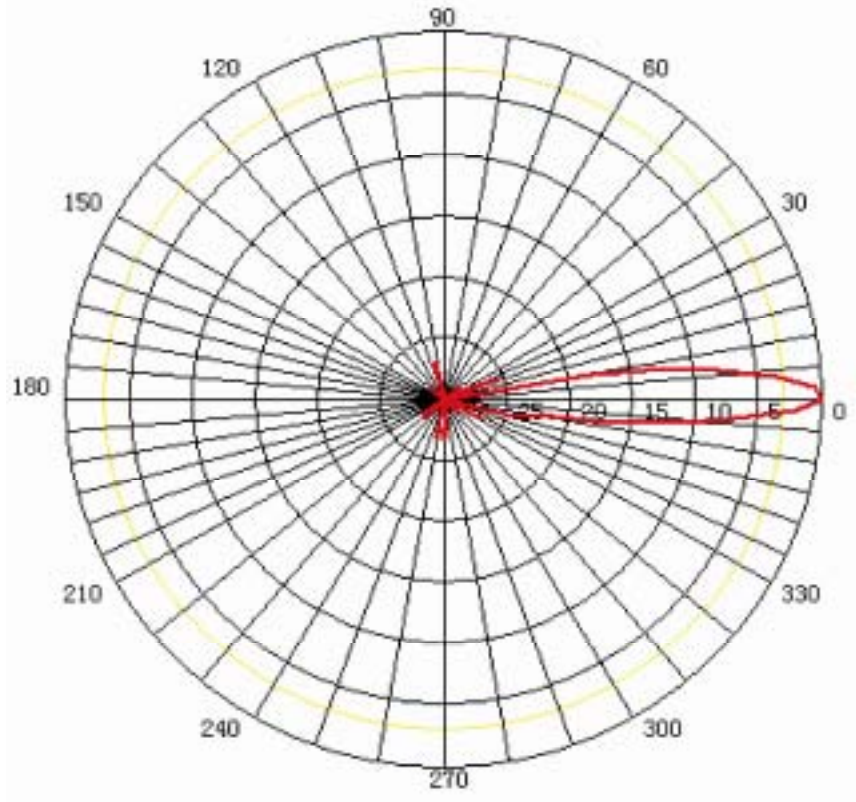


4.0 VSWR & Return Loss measurements



5.0 Gain curve with Radiation Pattern

E & H Plan

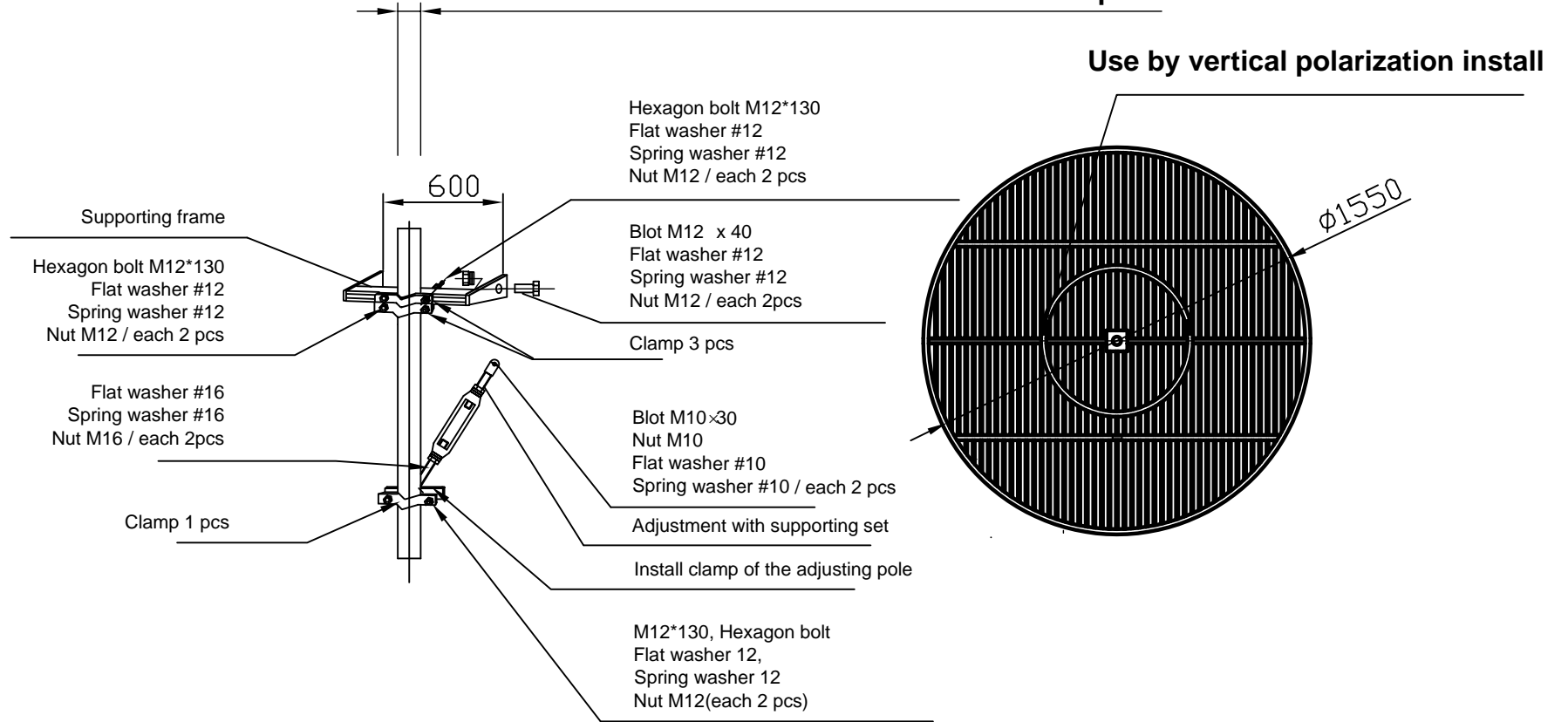


	2400 MHz	2450 MHz	2500MHz
0 deg	28.6 dBi	28.8 dBi	28.7 dBi
180 deg	28.8 dBi	29.0 dBi	28.5 dBi

6.0 Antenna Installation Note: See attached page

7.0 Package information: To Be Define

Dia. 50 ~ Dia. 80 consumer install pole



Remark	Q'ty	Exchange No.	Sign	Date
Design Eng.				
Checker				
DWG Eng.				
Unit	mm			
STD				
Approval				

**B6T-2429-15
Parabolic 2.4GHz Antenna
Installation note**

Weight	Version	Size	Scale
	1.0	A4	
Page		Total Page	

BORNTEK CORP. LTD.