

DESCRIPTION OF PLANET ANTENNA DATAFILE

The antenna pattern file is an ASCII Text file.

The MSI antenna file contains the general information, horizontal data points and vertical data point in one file.

The format of antenna files is as follows:

NAME CXL

MAKE Amphenol Procom

FREQUENCY XXX MHz

H WIDTH XX V WIDTH XX

FRONT TO BACK XX.XX

GAIN X dBi

HORIZONTAL 360

0.0 0.0

1.0 0.0

2.0 0.0

3.0 0.0

4.0 0.0

5.0 0.0

6.0 0.1

7.0 0.1

8.0 0.1 9.0 0.1

10.0 0.1

11.0 0.2

12.0 0.2

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355.0 0.1

356.0 0.1

357.0 0.1

358.0 0.1

359.0 0.0

VERTICAL 360

0.0 0.0

1.0 0.0

2.0 0.0

3.0 0.1

4.0 0.2

5.0 0.3

6.0 0.4

7.0 0.5

8.0 0.7

9.0 0.9 10.0 1.1

11.0 1.3

12.0 1.5

355.0 0.3

356.0 0.2

357.0 0.1

358.0 0.0

359.0 0.0

Page: 1 Last edited: 2018/10/11



Name of the antenna. NAME

The manufacturer name. MAKE

FREQUENCY Design frequency of the antenna.

The horicontal beamwidth of the antenna. **H WIDTH**

The vertical beamwidth of the antenna. **V WIDTH**

The ratio of power gain between the front and rear of a directional antenna. FRONT TO BACK

GAIN Antenna gain followed by dBi (isotropic).

HORIZONTAL The number, n' following indicates that the next, n' lines of data correspond to the

horizontal radiation pattern.

VERTICAL The number ,n' following indicates that the next ,n' lines of data correspond to the

vertical radiation pattern.

The antenna values are in the form:

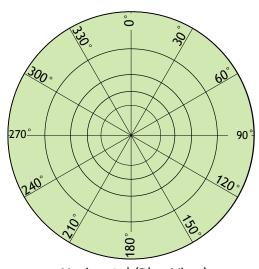
Angle [deg] Loss [dB]

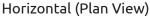
Where the angle must be from 0 to 360 degrees.

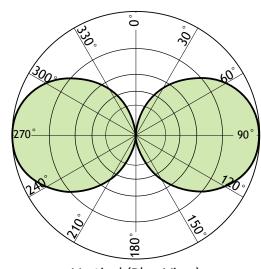
The interval may vary but is not be smaller than 0.5 degrees.

The loss values is normalized to maximum gain being zero and must be positive.

The diagrams below should help clarify the meaning of each field:







Vertical (Plan View)

The azimuth angle starts at 0° and goes clockwise for both horizontal and vertical data.

Page: 2