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Dipole 6G Band Antenna

02102475-07691-1,
02102475-07691-2,
02102475-07691-3,
02102475-07691-4

Engineering Data Sheets

Galtronics Embedded Antenna

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Revision History (Required)

Revisions	Date	Note
S1	1/11/2022	Initial Draft
S2	9/1/2022	Add -3 & -4 PNs
S3	11/28/2022	Simplified Figures 1 & 6

Disclaimers

The document is proprietary, which may be changed without notice. Please communicate with Galtronics sale team to verify before finalizing your product design.

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1. Galtronics Dipole 6GHz Band WiFi Antenna

The Galtronics 02102475-07691-1, -2, -3, -4 antennas are Dipole 6GHz Band WiFi antenna that operates in 5925-7125MHz bands. It provides high efficient radiation with good cost benefit.

2. Features

- Operates in 5925-7125MHz bands
- U.FL connector interface

3. Specifications and Interface

Standard	WiFi
Frequency Range	5925-7125MHz
Peak Gain	3.4dBi
VSWR	1.5:1
Feed Impedance	50Ω
Power Handling	30dBm
Interface	U.FL
Antenna Dimensions	11.8 mm x 21 mm x 0.6 mm
Temperature range	Operating: -20° C to +60° C (-4° F to +140° F) Storage: -20° C to +60° C (-4° F to +140° F)
Humidity Range	Operating: 10% to 85% non-condensing Storage: 5% to 90% non-condensing

4. Return Loss

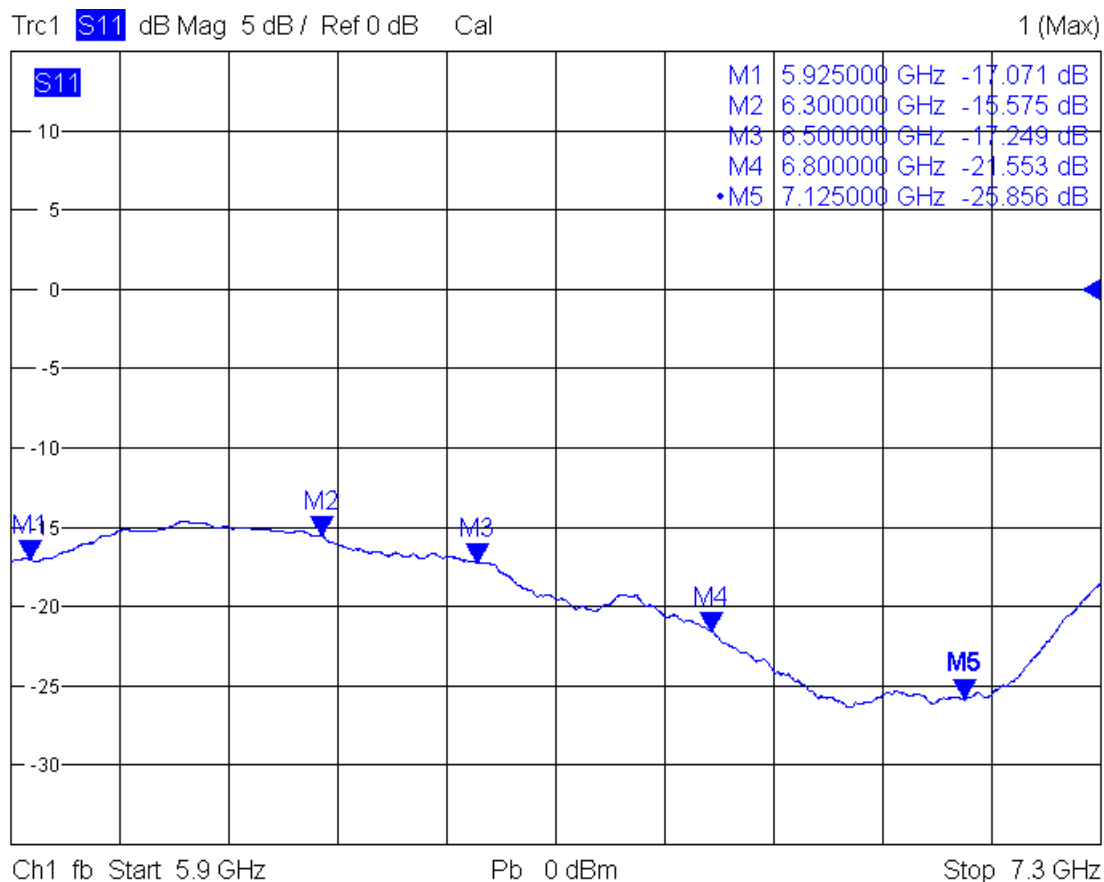
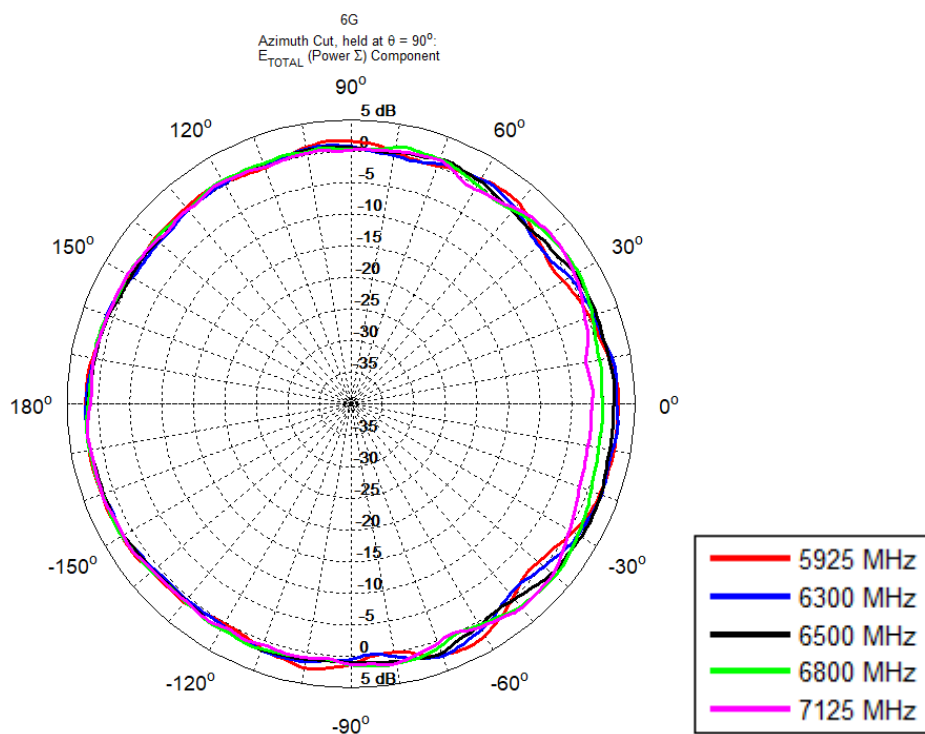


Figure 2 Return Loss

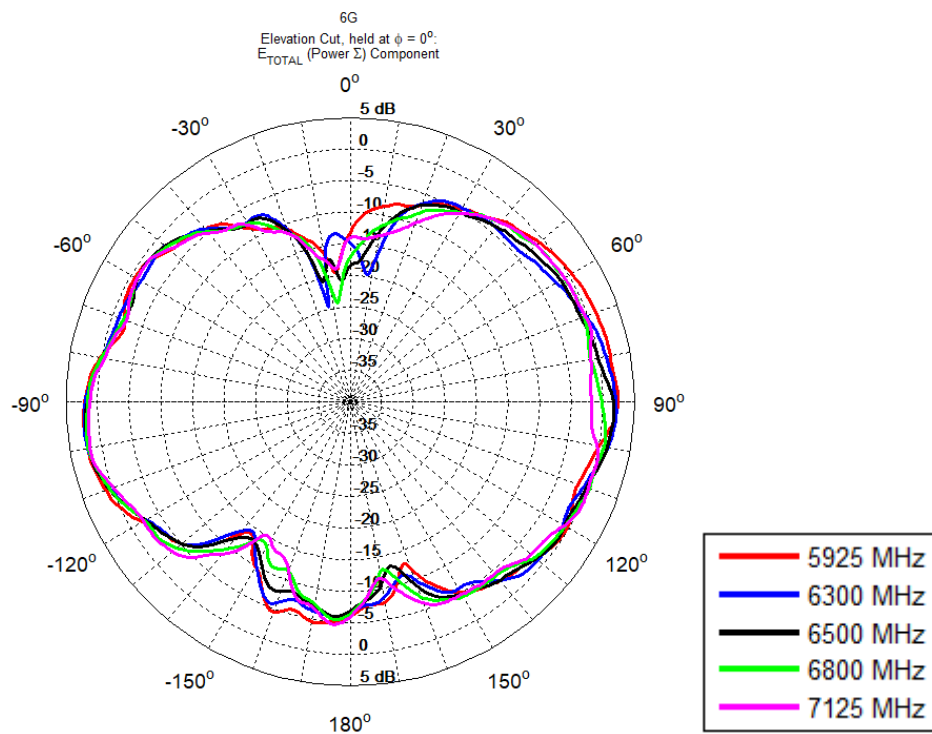
5. Gain Data

6GHz	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency
	5925	2.943	3.917	79.91 %
	6300	3.076	4.373	74.18 %
	6500	3.246	4.469	75.44 %
	6800	3.429	4.657	75.37 %
	7125	3.347	4.816	71.31 %
Average				75.24 %

7. Radiation Pattern

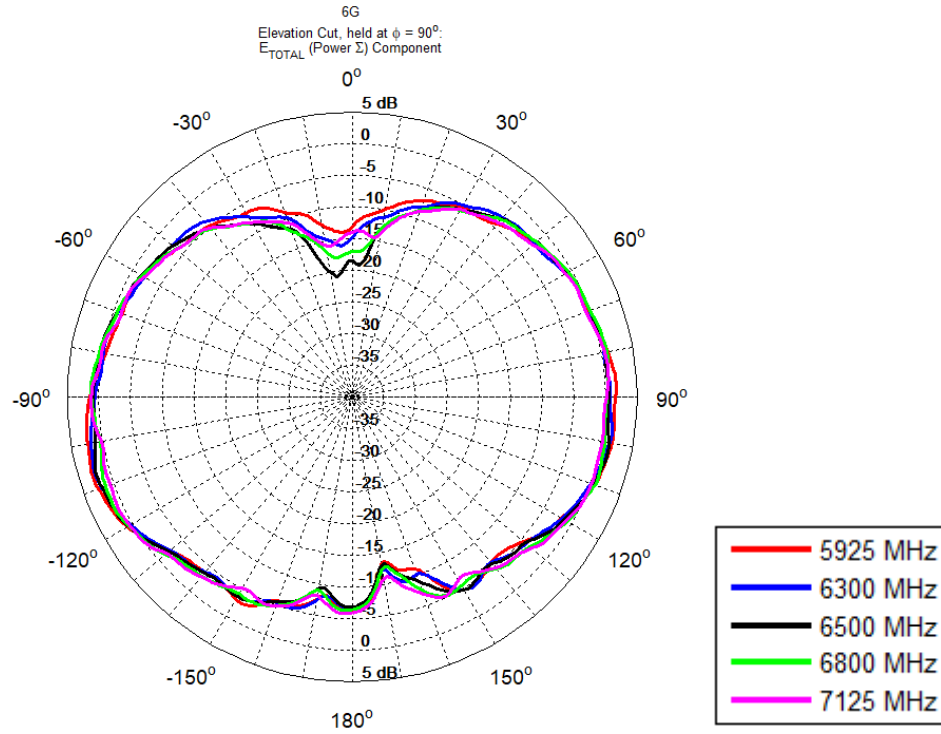


(A). Azimuth plane (XY plane) radiation pattern of 6GHz band



(B). Elevation 1 plane (XZ plane) radiation pattern of 6GHz band

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(C). Elevation 2 plane (YZ plane) radiation pattern of 6GHz band

Figure 4 Radiation in 6 GHz Band