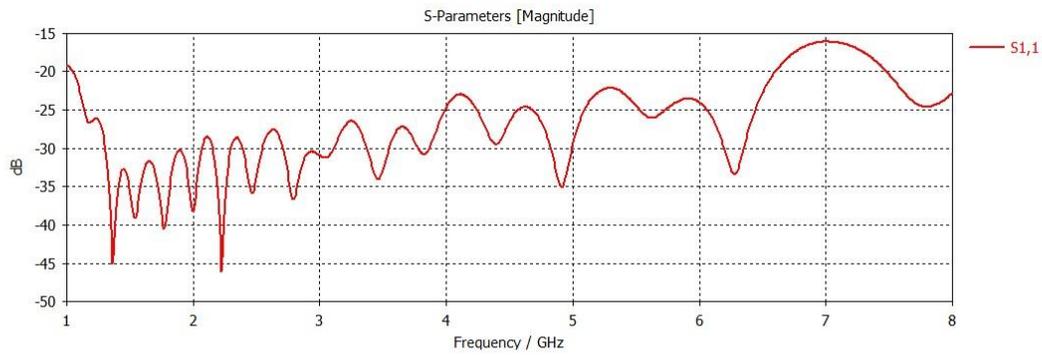


1GHz-8GHz Directional LPDA Antenna

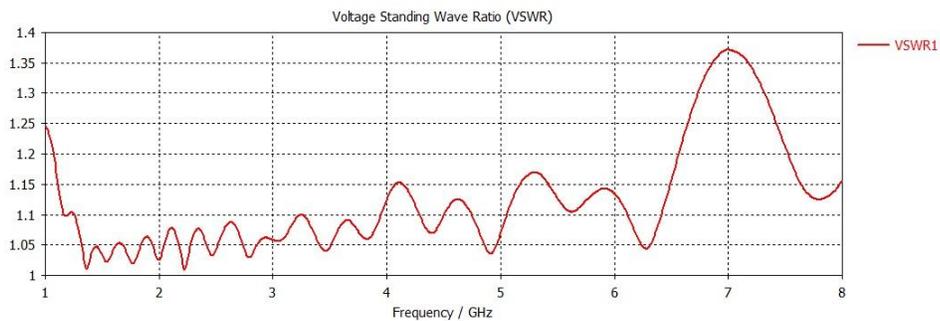
Sl. No.	Parameter	Description
1	Frequency	1.0GHz-8GHz
2	Model	TE-WB-LPDA-1000-8000-9-25
3	Gain	>3.0dBi @1.0GHz >9.0dBi @1.5GHz >9.0dBi @2.5GHz >8.5dBi @5.8GHz >8.0dBi @8.0GHz
4	Beam width (Az x EI)	109 deg (Az) x 68.7 deg (EI) 1.0 GHz 80 deg (Az) x 59 deg (EI) @ 2.0 GHz 87 deg (Az) x 62 deg (EI) @ 3.0 GHz 90 deg (Az) x 63 deg (EI) @ 4.0 GHz 93 deg (Az) x 64 deg (EI) @ 5.0 GHz 94 deg (Az) x 64 deg (EI) @ 6.0 GHz 111 deg (Az) x 69 deg (EI) @ 7.0 GHz 98 deg (Az) x 66 deg (EI) @ 8.0 GHz
5	VSWR	<1.5:1
6	Size	250mm (L) x 150mm (H)x1.6 mm (W)
7	Polarization	Vertical
8	Connector (Optional)	SMA (F) (Mil Grade)
9	Impedance	50 Ohm
10	Antenna Type	LPDA

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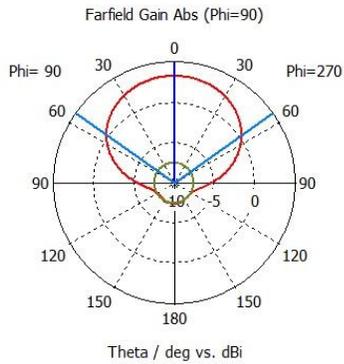
Simulated return loss of the antenna



Simulated VSWR of the antenna

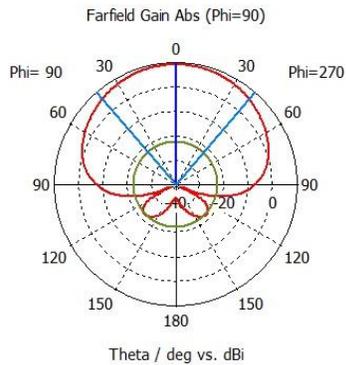
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AZIMUTH PATTERNS



— farfield (f=1) [1]

Frequency = 1 GHz
 Main lobe magnitude = 3.22 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 109.3 deg.

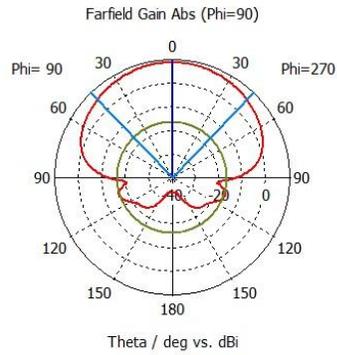


— farfield (f=2) [1]

Frequency = 2 GHz
 Main lobe magnitude = 9.22 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 80.7 deg.

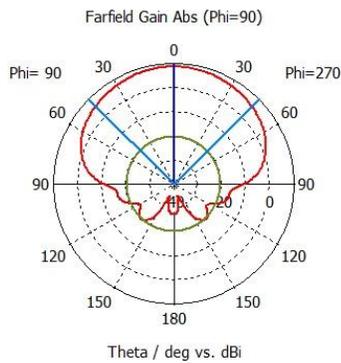
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— farfield (f=3) [1]

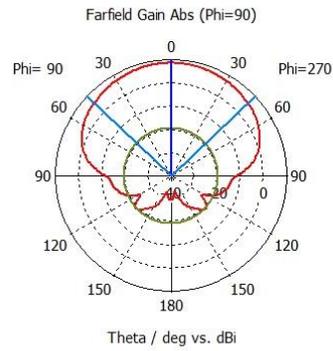
Frequency = 3 GHz
 Main lobe magnitude = 8.81 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 87.5 deg.



— farfield (f=4) [1]

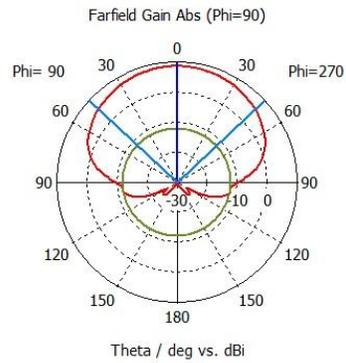
Frequency = 4 GHz
 Main lobe magnitude = 8.66 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 90.2 deg.

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— farfield (f=5) [1]

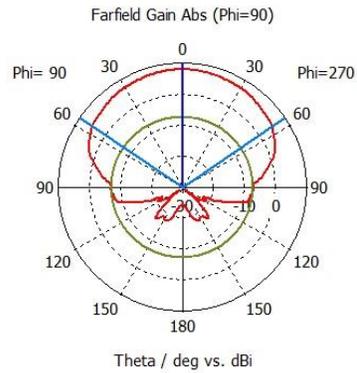
Frequency = 5 GHz
 Main lobe magnitude = 8.54 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 93.0 deg.



— farfield (f=6) [1]

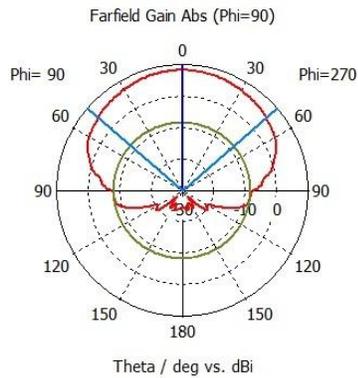
Frequency = 6 GHz
 Main lobe magnitude = 8.53 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 93.9 deg.

TE TECH SOLUTION



— farfield (f=7) [1]

Frequency = 7 GHz
 Main lobe magnitude = 7.91 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 111.3 deg.

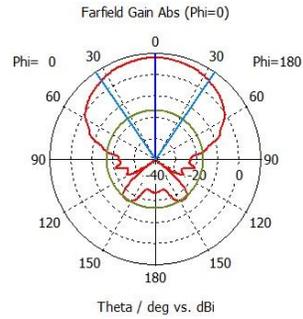


— farfield (f=8) [1]

Frequency = 8 GHz
 Main lobe magnitude = 8.21 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 97.9 deg.

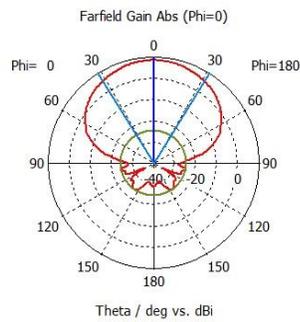
TE TECH SOLUTION

ELEVATION PATTERN



— farfield (f=7) [1]

Frequency = 7 GHz
Main lobe magnitude = 7.91 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 69.1 deg.

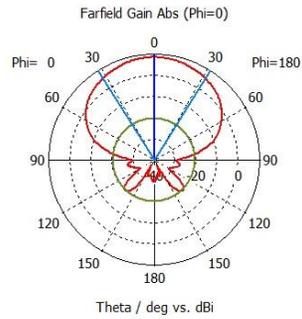


— farfield (f=6) [1]

Frequency = 6 GHz
Main lobe magnitude = 8.53 dBi
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 63.7 deg.

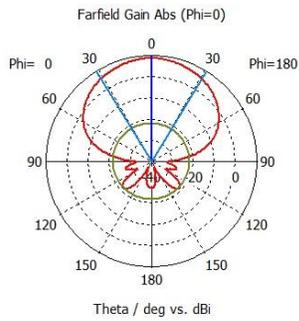
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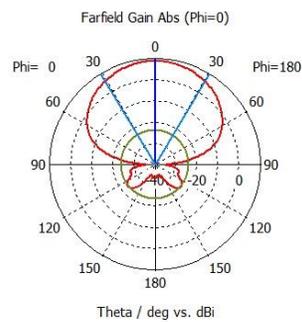
— farfield (f=5) [1]

Frequency = 5 GHz
 Main lobe magnitude = 8.54 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 64.0 deg.



— farfield (f=4) [1]

Frequency = 4 GHz
 Main lobe magnitude = 8.66 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 63.1 deg.

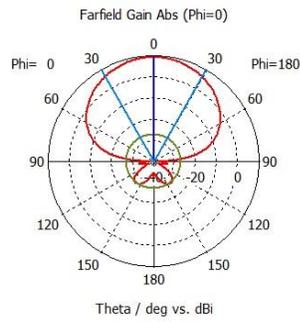


— farfield (f=3) [1]

Frequency = 3 GHz
 Main lobe magnitude = 8.81 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 62.0 deg.

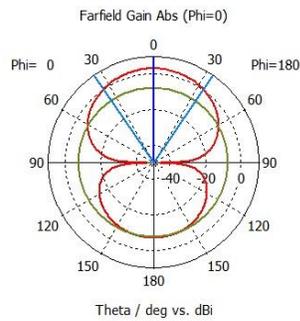
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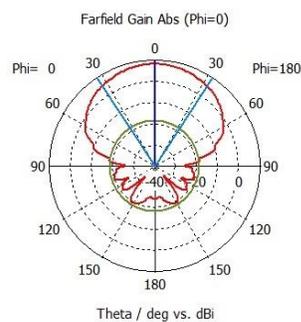
— farfield (f=2) [1]

Frequency = 2 GHz
 Main lobe magnitude = 9.22 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 59.1 deg.



— farfield (f=1) [1]

Frequency = 1 GHz
 Main lobe magnitude = 3.22 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 68.7 deg.

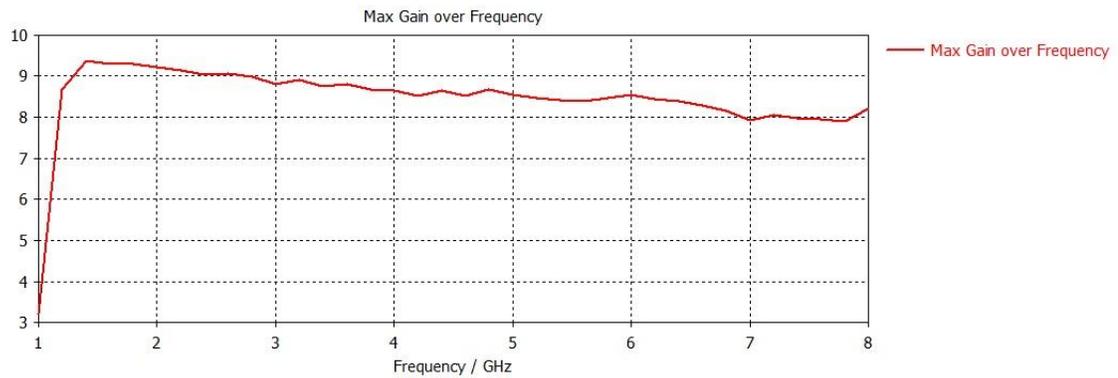


— farfield (f=8) [1]

Frequency = 8 GHz
 Main lobe magnitude = 8.21 dBi
 Main lobe direction = 0.0 deg.
 Angular width (3 dB) = 66.1 deg.

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Simulated Gain Figure of Antenna

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