

0.4 GHz - 1 GHz Directional LPDA Antenna

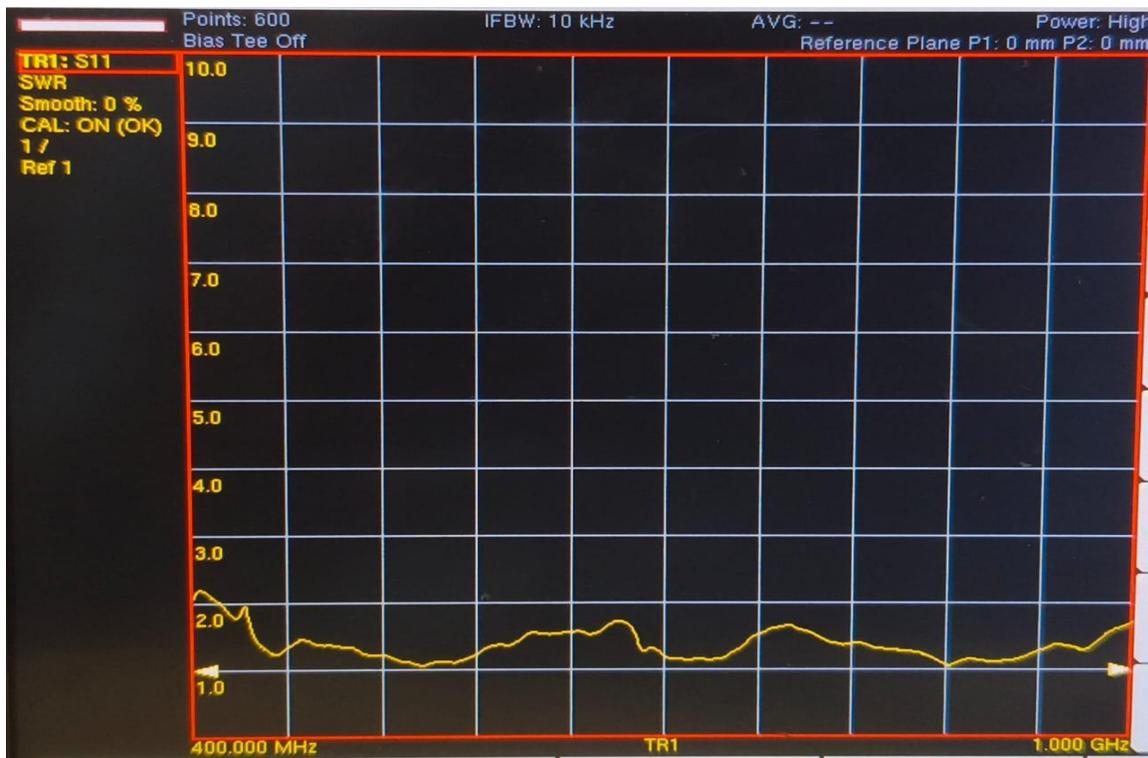
Sl. No.	Parameter	Description
1	Frequency	0.4GHz-1GHz
2	Model	TE-WB-LPDA-400-1000-6-25
3	Gain	>4.8dBi @0.4GHz >6.0dBi @0.6GHz >5.7dBi @0.8GHz >5.8dBi @1.0GHz
4	Beam width (Az x EI)	154 deg (Az) x 72 deg (EI) 0.4GHz 121 deg (Az) x 67 deg (EI) @ 0.6GHz 136 deg (Az) x 68 deg (EI) @ 0.8GHz 134 deg (Az) x 65 deg (EI) @ 1.0 GHz
5	VSWR	<2.0:1
6	Size	250mm (L) x 300mm (H)x1.6 mm (W)
7	Polarization	Vertical
8	Connector (Optional)	SMA (F) (Mil Grade)
9	Impedance	50 Ohm
10	Antenna Type	LPDA

TE TECH SOLUTION

Off Address: 38, 1st Cross, Hanuman Layout, Ramachandrapura, Bengaluru-560013,
(Mobile No: 8910780736 & 7829139667) E-mail: sales@tetechsolution.com, Website:
www.tetechsolution.com



Simulated return loss of the antenna



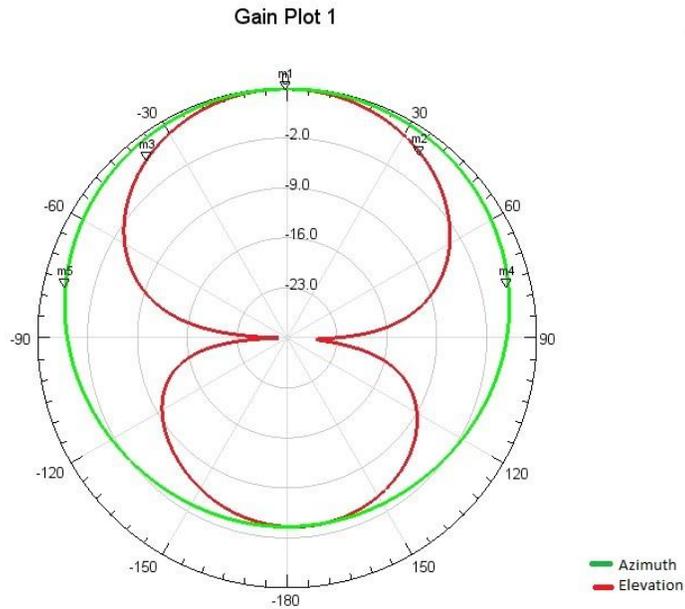
Simulated VSWR of the antenna

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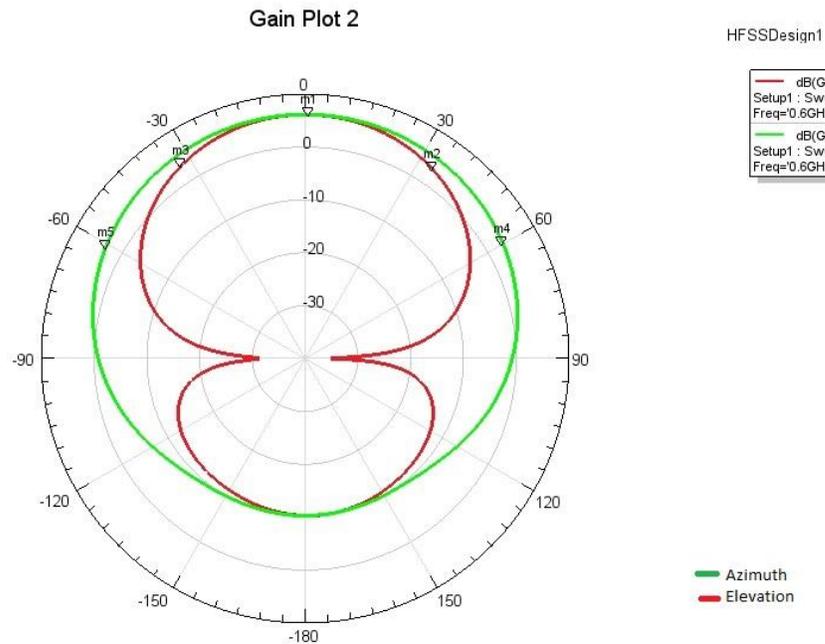
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RADIATION PATTERNS

Name	Theta [deg]	Ang	Mag
m1	0	4.9738E-13	4.8608
m2	36	36.0000	1.8769
m3	-38	-38.0000	1.8161
m4	77	77.0000	1.8714
m5	-77	-77.0000	1.8859



Name	Theta [deg]	Ang	Mag
m1	1	1.0000	6.1256
m2	34	34.0000	3.1701
m3	-33	-33.0000	3.3193
m4	60	60.0000	3.3223
m5	-61	-61.0000	3.2109

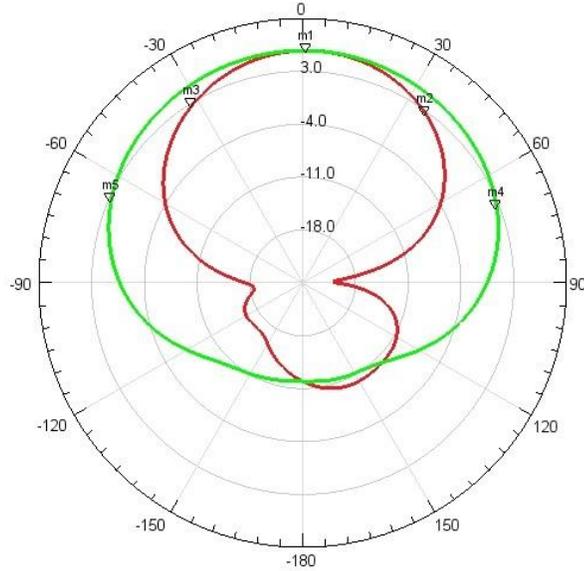


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Name	Theta [deg]	Ang	Mag
m1	1	1.0000	5.7393
m2	36	36.0000	2.6931
m3	-32	-32.0000	2.6887
m4	69	69.0000	2.5964
m5	-67	-67.0000	2.5989

Gain Plot 3



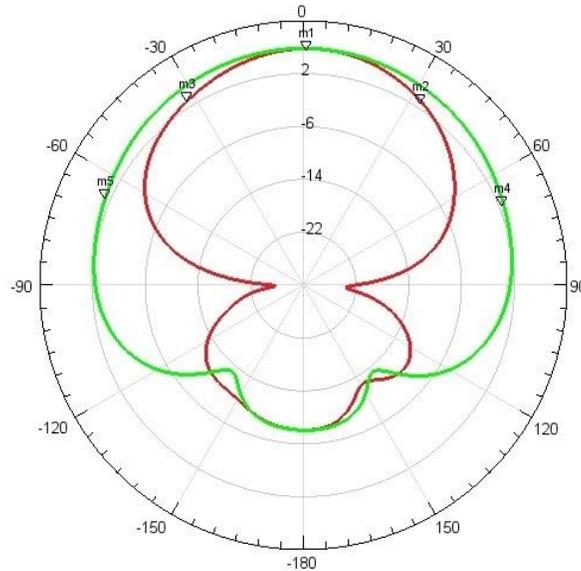
HFSSDesign1

— dB(GainTotal)
Setup1 : Sweep
Freq=0.8GHz' Phi=0deg'
— dB(GainTotal)
Setup1 : Sweep
Freq=0.8GHz' Phi=90deg'

— Azimuth
— Elevation

Name	Theta [deg]	Ang	Mag
m1	1	1.0000	5.8008
m2	33	33.0000	2.9852
m3	-32	-32.0000	2.9890
m4	68	68.0000	2.7389
m5	-66	-66.0000	2.8318

Gain Plot 4



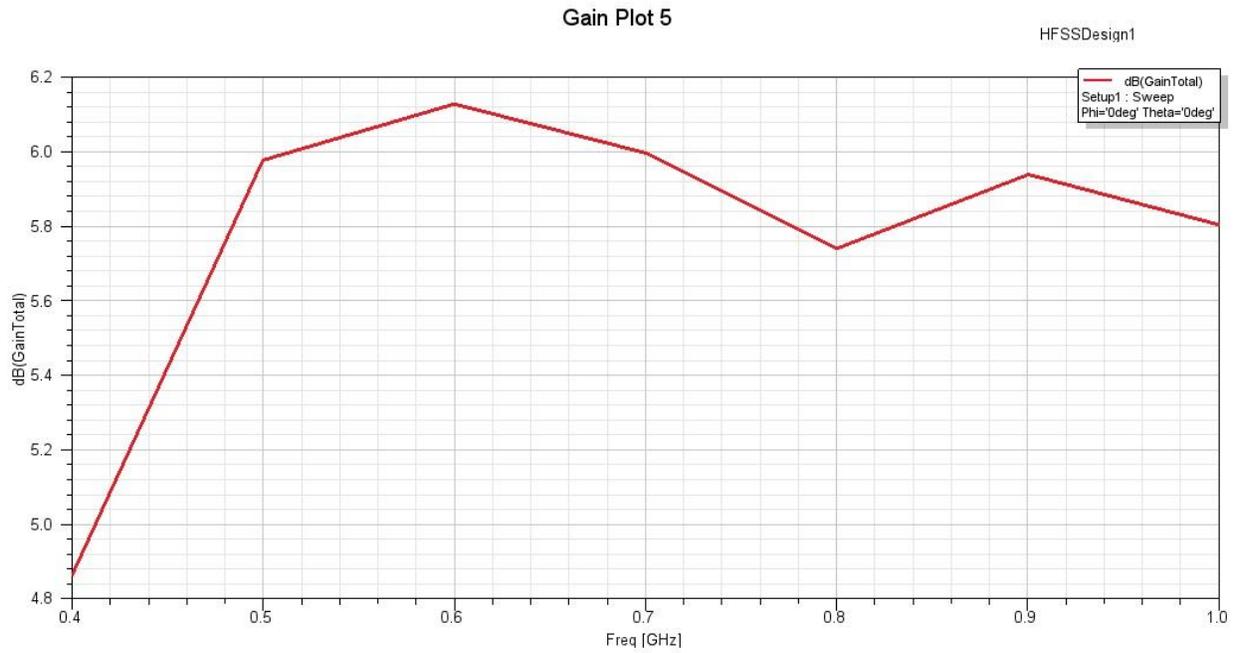
HFSSDesign1

— dB(GainTotal)
Setup1 : Sweep
Freq=1GHz' Phi=0deg'
— dB(GainTotal)
Setup1 : Sweep
Freq=1GHz' Phi=90deg'

— Azimuth
— Elevation

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Simulated Gain Figure of Antenna

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