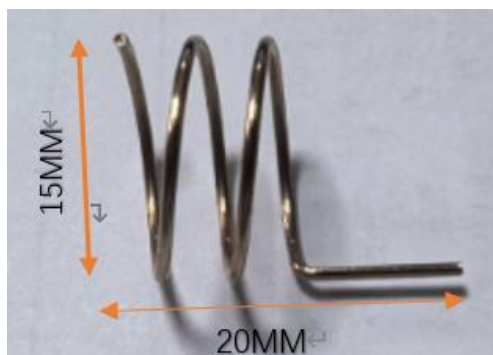


ANT Report

Manufacturer:	YX Electronic Technology Co.,Ltd
Add:	No.18 North Street,Dawobu,Xinya Street, Huadu District, Guangzhou city,510800,China
Model:	PHOTO
Date:	April 10, 2026
Versions:	V1.0



Antenna specifications: Total length: 20MM, Diameter: 15MM

Frequency range	640-690MHz
VSWR	≤ 7.0
Input impedance	50 Ω
Peak Gain(dBi)	5.15
Antenna type	Metal material spring
Temperature	-40~80

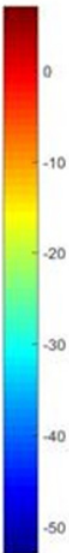
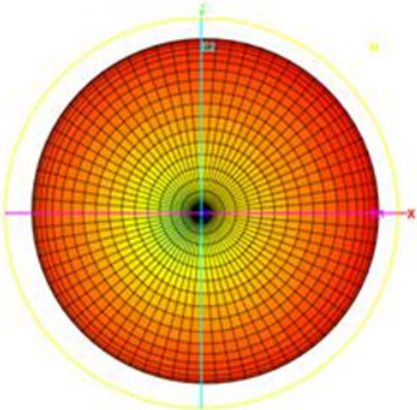
Frequency(MHz)	Return Loss	VSWR
657	-8.17	1.13
660	-10.79	1.15
663	-10.31	1.16

(Performance Parameter)

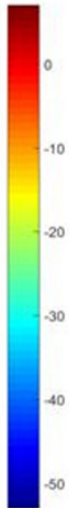
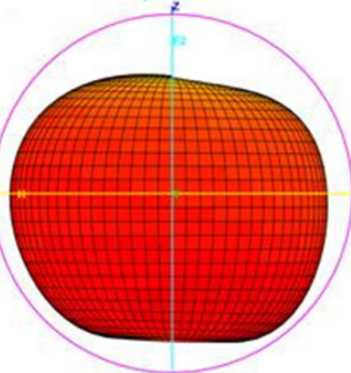
Horizontal+Vertical	Frequency	640MHz	665MHZ	690MHz
	Ant. Port Inp. Pow. (dBi)	0	0	0
	Rad. Pow. (dBi)	-3.68	-3.68	-4.05
	Rad. Pow. 0-90 (dBi)	-12.61	-12.61	-13.75
	Rad. Pow. 90-180 (dBi)	-4.91	-4.91	-5.11
	Peak EIRP (dBi)	1.28	1.28	1.18
	Directivity (dBi)	4.96	4.96	5.23
	Efficiency (dB)	-3.68	-3.68	-4.05
	Efficiency (%)	42.85	42.85	39.36
	Gain (dBi)	4.78	4.78	5.15
	NHPRP +/-30 (dBi)	-9.82	-9.82	-10.69
	NHPRP +/-45 (dBi)	-7.39	-7.39	-8.07
	Maximum H+V Value (dBi)	1.28	1.28	1.18
	Maximum H+V @ Theta (deg.)	150	150	150
	Maximum H+V @ Phi (deg.)	210	210	210
	Minimum H+V Value (dBi)	-18.85	-18.85	-19.94
	Minimum H+V @ Theta (deg.)	0	0	60
	Minimum H+V @ Phi (deg.)	60	60	240
Horizontal	Ant. Port Inp. Pow. (dBi)	0	0	0
	H Rad. Pow. (dBi)	-3.96	-3.96	-4.36
	H Rad. Pow. 0-90 (dBi)	-13.3	-13.3	-14.57
	H Rad. Pow. 90-180 (dBi)	-5.1	-5.1	-5.33
	H Peak EIRP (dBi)	1.24	1.24	1.13
	H Directivity (dBi)	5.2	5.2	5.49
	H Efficiency (dB)	-3.96	-3.96	-4.36
	H Efficiency (%)	40.18	40.18	36.64
	H Gain (dBi)	1.24	1.24	1.13
	H NHPRP +/-30 (dBi)	-10.25	-10.25	-11.12
	H NHPRP +/-45 (dBi)	-7.77	-7.77	-8.47
	Maximum H Value (dBi)	1.24	1.24	1.13
	Maximum H @ Theta (deg.)	150	150	150
	Maximum H @ Phi (deg.)	210	210	210
	Minimum H Value (dBi)	-22.97	-22.97	-24.66
	Minimum H @ Theta (deg.)	180	180	180
	Minimum H @ Phi (deg.)	300	300	120
Vertical	Ant. Port Inp. Pow. (dBi)	0	0	0
	V Rad. Pow. (dBi)	-15.63	-15.63	-15.67
	V Rad. Pow. 0-90 (dBi)	-20.94	-20.94	-21.36
	V Rad. Pow. 90-180 (dBi)	-18.65	-18.65	-18.08
	V Peak EIRP (dBi)	-9.1	-9.1	-8.66
	V Directivity (dBi)	6.53	6.53	7.01
	V Efficiency (dB)	-15.63	-15.63	-15.67
	V Efficiency (%)	2.74	2.74	2.71
	V Gain (dBi)	-9.1	-9.1	-8.66
	V NHPRP +/-30 (dBi)	-20.16	-20.16	-20.99
	V NHPRP +/-45 (dBi)	-18.07	-18.07	-18.65
	Maximum V Value (dBi)	-9.1	-9.1	-8.66
	Maximum V @ Theta (deg.)	120	120	120
	Maximum V @ Phi (deg.)	120	120	120
	Minimum V Value (dBi)	-27.15	-27.15	-35.48
	Minimum V @ Theta (deg.)	0	0	120

Minimum V @ Phi (deg.)

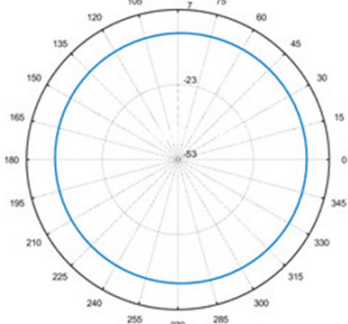
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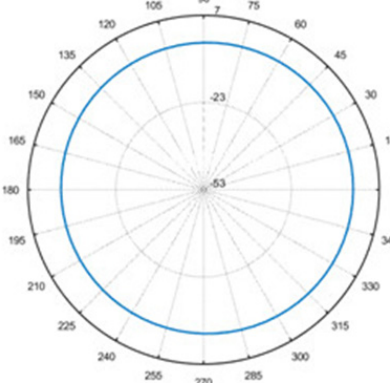
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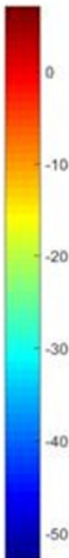
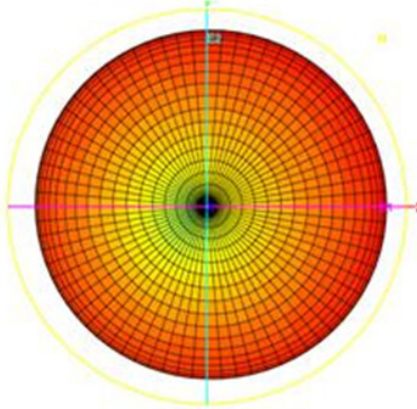
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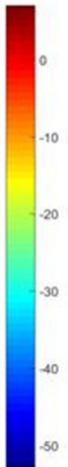
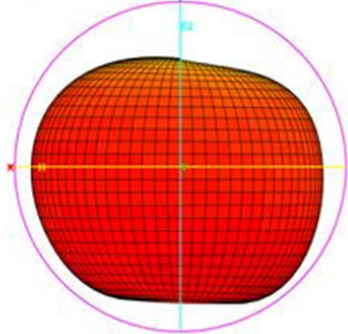
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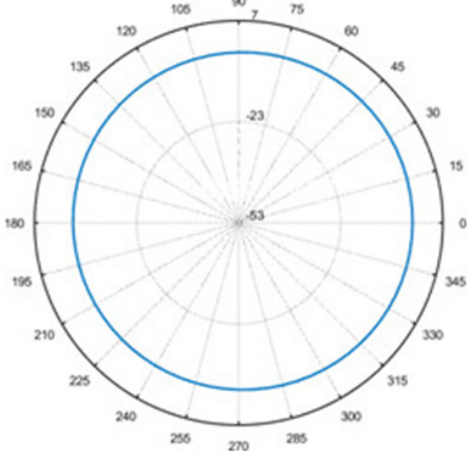
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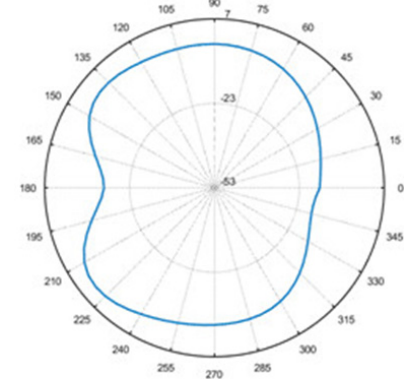
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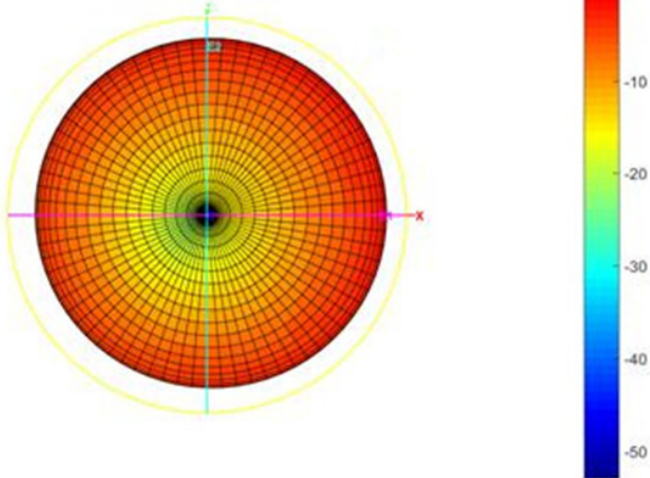
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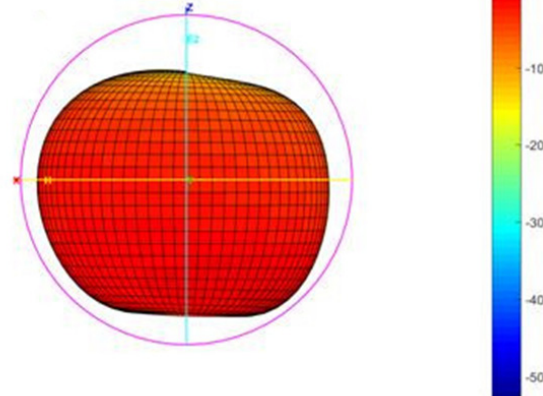
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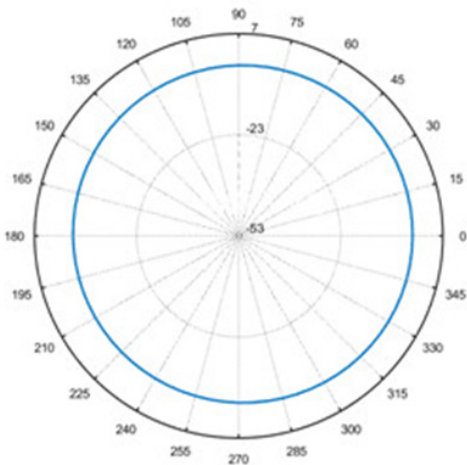
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Total-3D-E1-690MHZ



Total-Polar-H-690MHZ



Total-Polar-E1-690MHZ

