

**TH0911-2412-5814-NF**



**TH0911-2412-5814-NF-6**



### Triple Frequency 900 MHz, 2.4 GHz & 5.8 GHz Circular Polarized Antennas

*Models: TH0911-2412-5814-NF, TH0911-2412-5814-NF-6*

TACO's tri-band helical antennas operates in the 900 MHz, 2.4 GHz & 5.8 GHz frequency bands simultaneously. Our engineered design ensures a clean signal with low VSWR across their full signal ranges. Their exceptional performance make them ideal for applications such as drone jamming, public safety, mining, video surveillance and warehousing. The antennas are encased in a rugged polycarbonate radome to protect advanced components consisting of highly optimized radiating structures. Through this combined emphasis on strong form and precise function, TACO has established itself as one of the most trusted names in the antenna business, serving the defense and aviation markets for over 80 years.

### ELECTRICAL SPECIFICATIONS

Model	TH0911-2412-5814-NF	TH0911-2412-5814-NF-6
Frequency Range - GHz	0.69-1.0 / 2.4-2.5 / 5.7- 5.85	0.76-1.0 / 2.4-2.5 / 5.7- 5.85
Impedance - $\Omega$	50	50
Gain - dBic	0.9 GHz	11
	2.4 GHz	12
	5.8 GHz	14
F/B RATIO - dB	>20	>20
VSWR - max	2:1	2:1
Connector Type	N-Female	N-Female
Number of Outputs	3	3
Polarization	0.9 GHz	LHCP
	2.4 GHz	RHCP
	5.8 GHz	LHCP
Isolation - min (dB)	-15	-15
Half Power Beamwidth - $^{\circ}$	0.9 GHz	46
	2.4 GHz	32
	5.8 GHz	12
Power rating - W	0.9 GHz	100
	2.4 GHz	100
	5.8 GHz	50
Operational Temperature - C (F)	-40 to +75 (-40 to +167)	-40 to +75 (-40 to +167)

### MECHANICAL SPECIFICATIONS

Length from Bottom of Ground Plane - in (cm)	16.1 (40.9)	16.1 (40.9)
Ground Plane Diameter - in (cm)	12.0 (30.5)	6.0 (15.2)
Radome Diameter - in (cm)	5.0 (12.7)	5.0 (12.7)
Bulkhead Base Diameter - in (cm)	6.0 (15.2)	6.0 (15.2)
Cap Diameter - in (cm)	5.1 (13.0)	5.1 (13.0)
Antenna Weight - lbs (kg)	4.3 (2.0)	3.3 (1.5)
Antenna Color	Flat Black	Flat Black

### Applications

Counter drone, mining, public safety, elevator & ventilation shafts, video surveillance, warehousing, tunnels, downtown corridors, parking lots, Wi-Fi Mesh, WiMax, ISM, VOiP

### Rugged Construction

- Polycarbonate radome and sealing gasket ensure water and dust ingress protection

### Exceptional Performance

- Less interference than with linear signal for cleaner line of sight, greater data throughput and transmission distance.

### Reliable Connection

- Circular polarization ideally suited to harsh environments that have severe reflections from rock faces, mining equipment, metal surfaces and water.

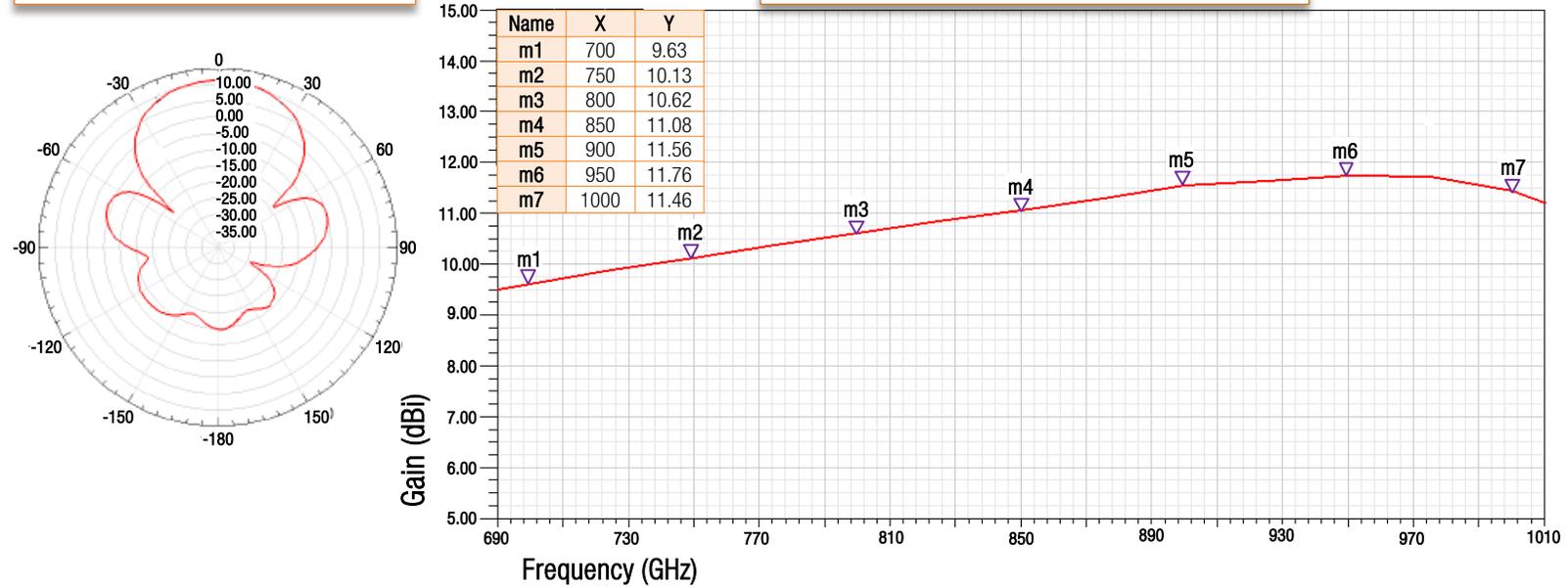
*TACO Antenna's ongoing policy of continuing development may result in specification changes to its products.*

TH0911-2412-5814-NF

900 MHz

690 - 1000 MHz Phi 0°

690 - 1000 MHz GAIN vs FREQUENCY

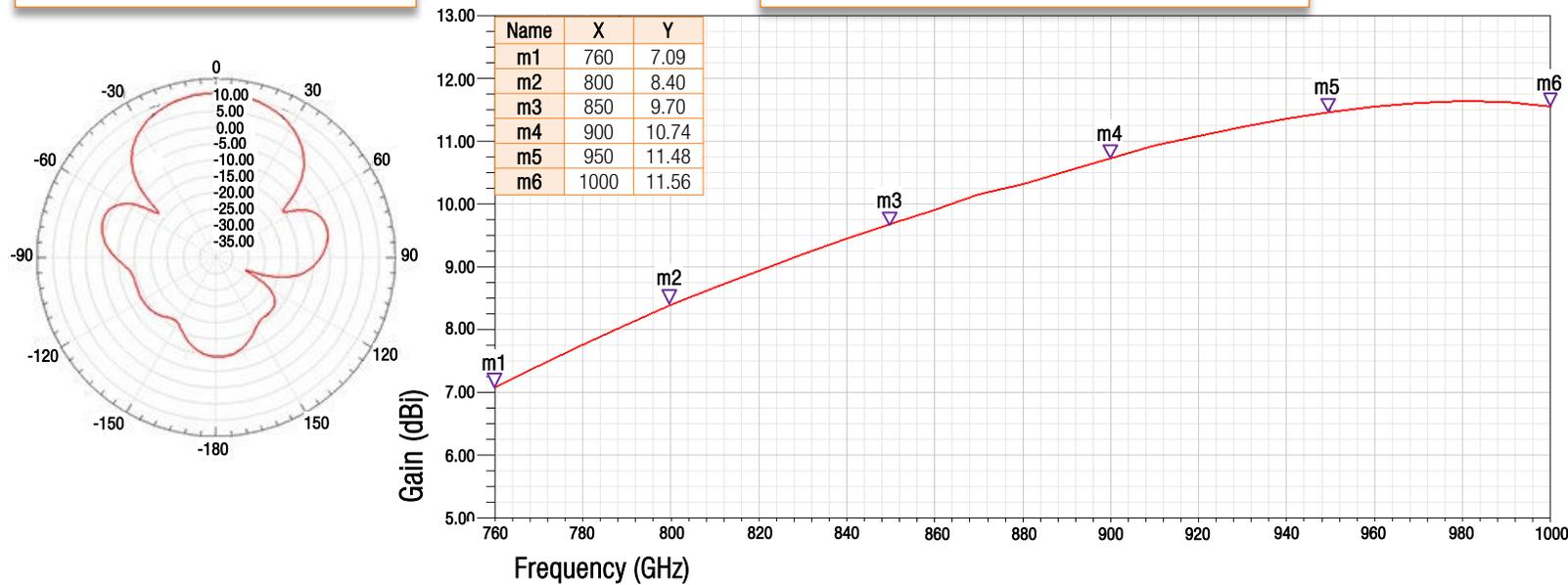


TH0911-2412-5814-NF-6

900 MHz

760 - 1000 MHz Phi 0°

760 - 1000 MHz GAIN vs FREQUENCY



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(A division of Wade Antenna, Inc.)  
29 Sharp Road, Brantford, Ontario  
Canada N3T 5L8

Ask us today about integrating our **BlackOut** Helical Counter Drone Antenna series into your C-UAS devices

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717.975.0885 / 519.756.7157

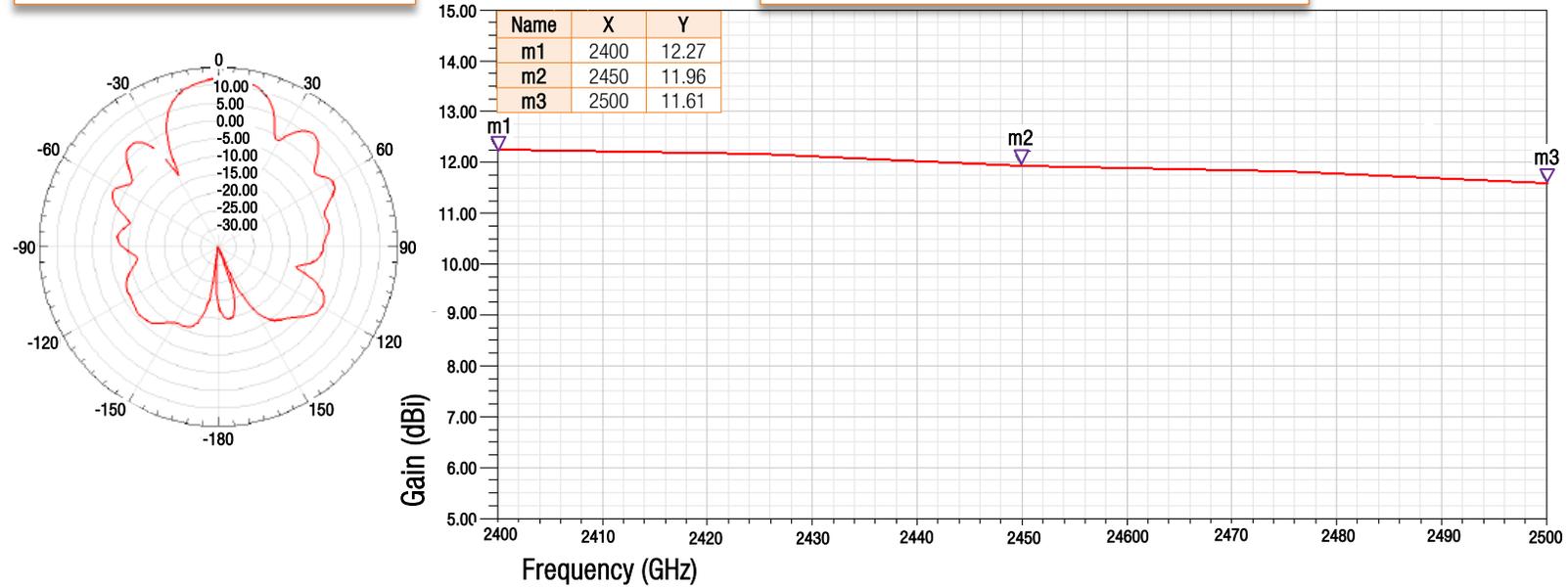
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TH0911-2412-5814-NF

2.4 GHz

2400 - 2500 MHz Phi 0°

2400 - 2500 MHz GAIN vs FREQUENCY

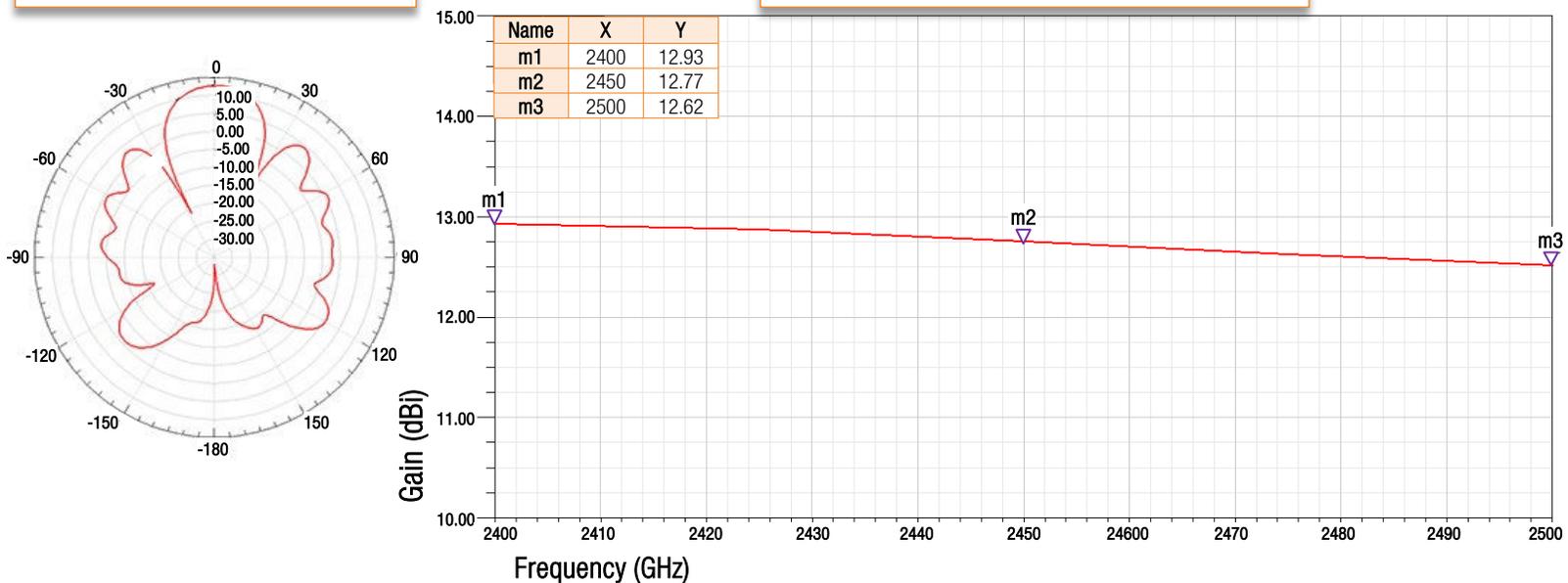


TH0911-2412-5814-NF-6

2.4 GHz

2400 - 2500 MHz Phi 0°

2400 - 2500 MHz GAIN vs FREQUENCY



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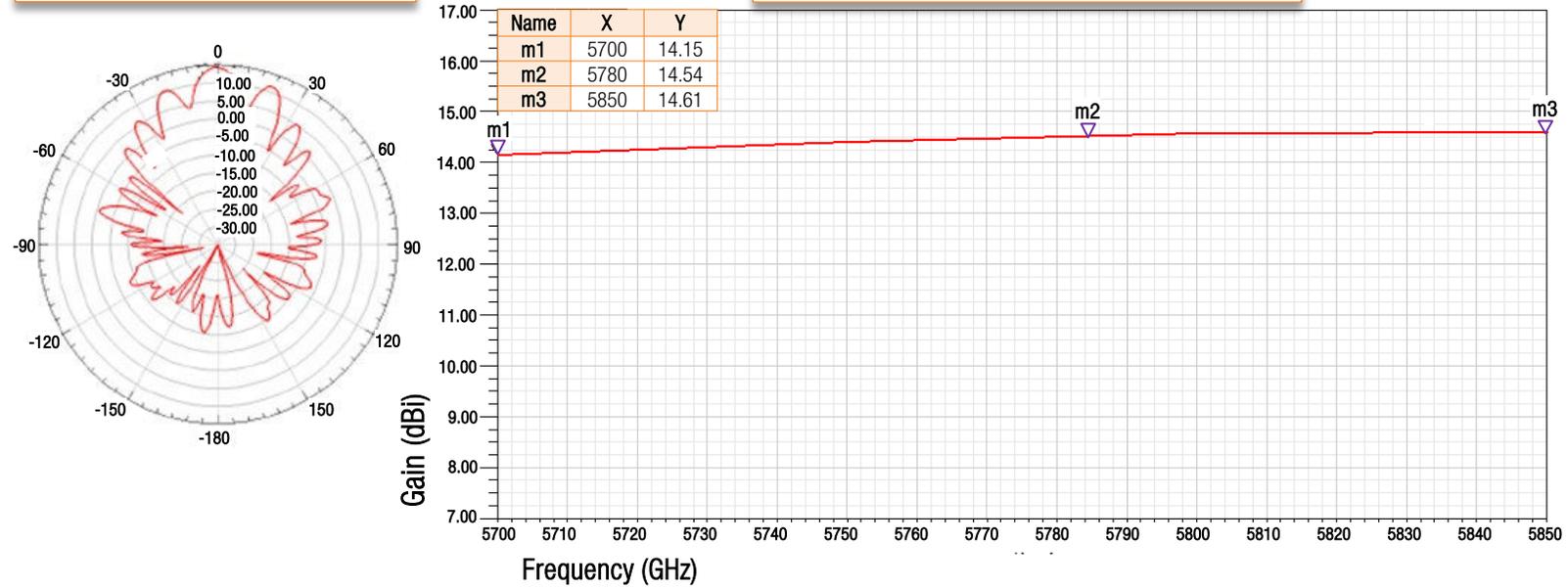
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TH0911-2412-5814-NF

5.8 GHz

5700 - 5850 MHz Phi 0°

5700 - 5850 MHz GAIN vs FREQUENCY

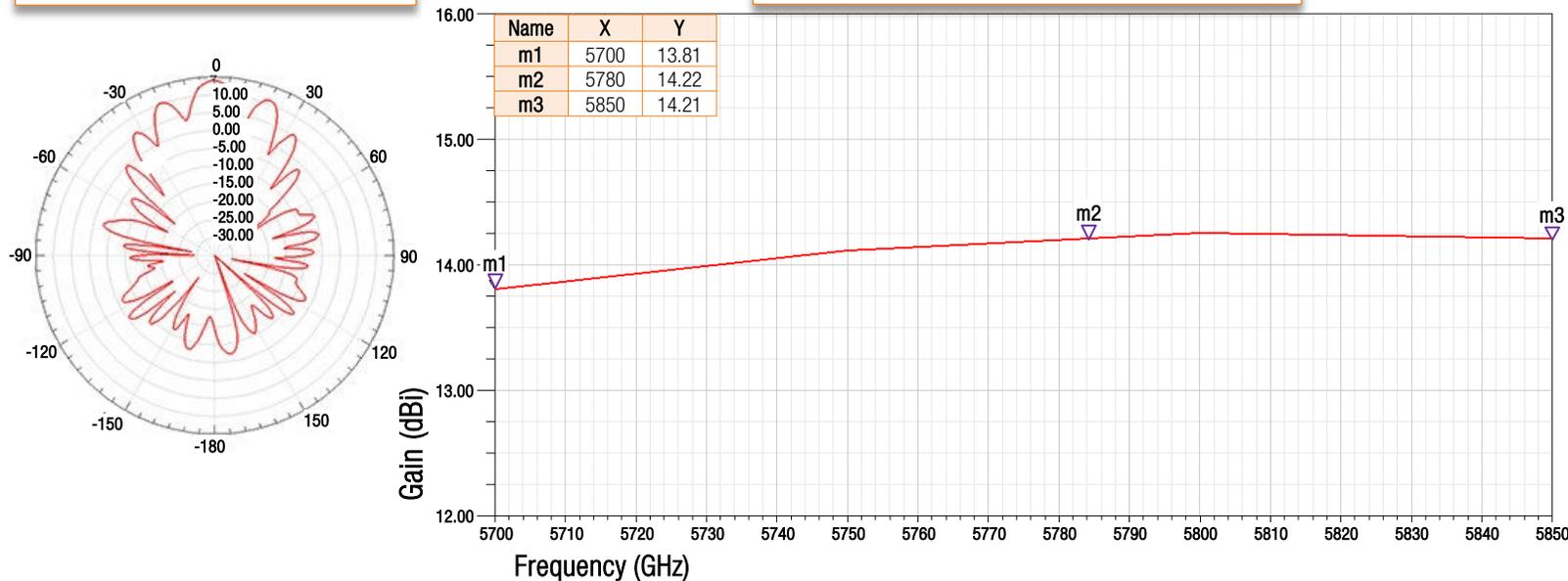


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5.8 GHz

5700 - 5850 MHz Phi 0°

5700 - 5850 MHz GAIN vs FREQUENCY



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