



### Dual Frequency 900 MHz & 2.4 GHz Circular Polarized Antenna

#### Model DH0911-2412-NF

The TACO DH0911-2412-NF helical antenna operates in both 900 MHz and 2.4 GHz simultaneously. The engineered design ensures a clean signal with low VSWR across the entire 690-1.0 GHz and 2.4-2.5 GHz bands. This exceptional performance makes it ideal for applications such as drone jamming, public safety, mining, video surveillance and warehousing. The antenna is 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.

### Applications

Mining, public safety, counter drone, 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.

### ELECTRICAL SPECIFICATIONS

Frequency Range - GHz	0.69-1.0 & 2.4-2.5	
Impedance - $\Omega$	50	
Gain - dBic	0.9 GHz	11
	2.4 GHz	12
F/B RATIO - dB	>20	
VSWR - max	2:1	
Connector Type	N-Female	
Number of Outputs	2	
Polarization	0.9 GHz	LHCP
	2.4 GHz	RHCP
Isolation - min (dB)	-15	
Half Power Beamwidth - $^\circ$	0.9 GHz	47
	2.4 GHz	32
Power rating - W	100	
Operational Temperature - C (F)	-40 to +75 (-40 to +167)	

### MECHANICAL SPECIFICATIONS

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

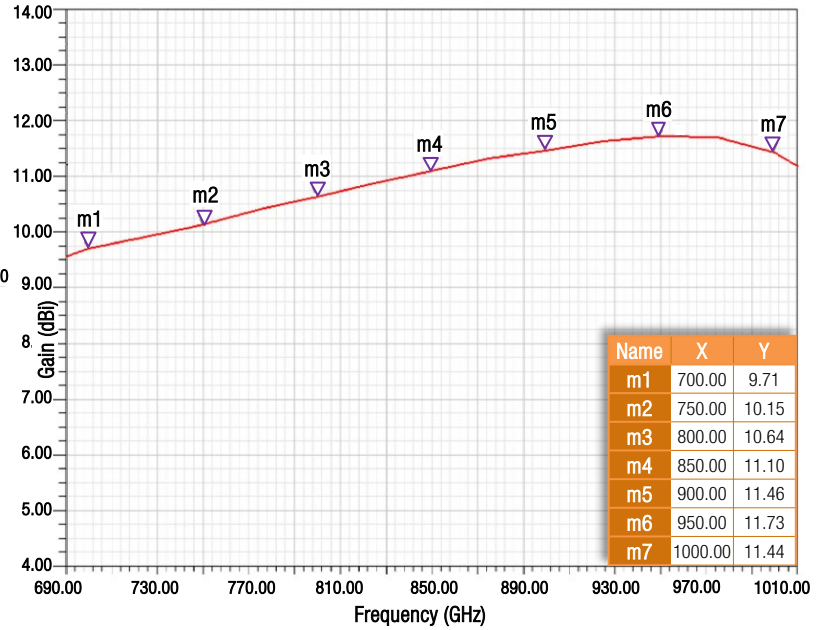
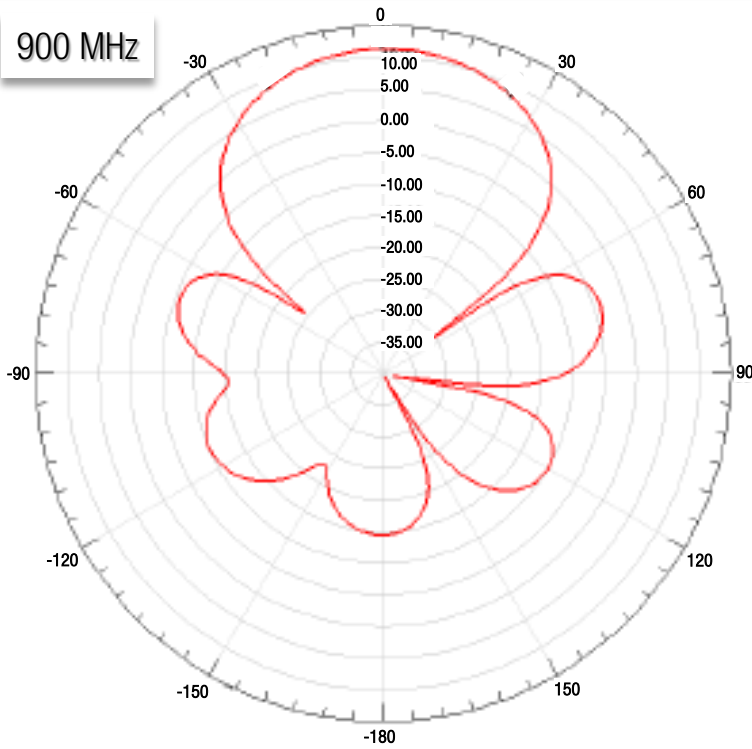
*TACO Antenna's ongoing policy of continuing development may result in specification changes to its products.*

### PATTERN

690 MHz – 1.0 GHz

### GAIN VS FREQUENCY

900 MHz

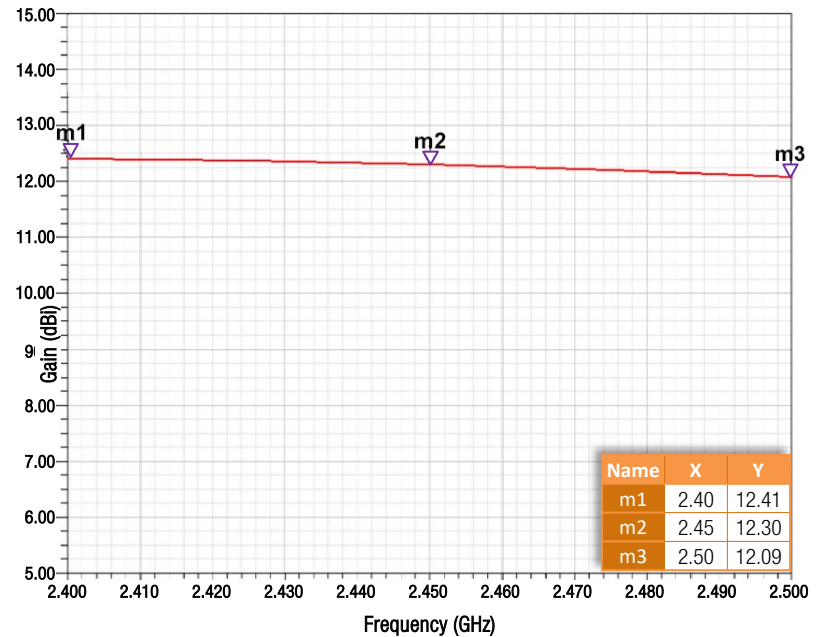
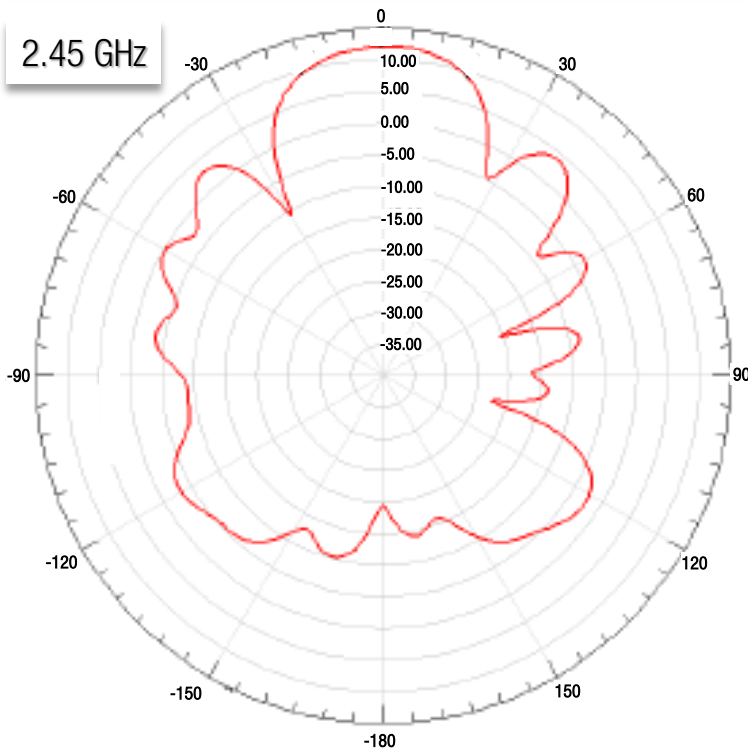


### PATTERN

2.40 – 2.50 GHz

### GAIN VS FREQUENCY

2.45 GHz



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