

# Technical Data Sheet

## External WLAN Antenna

Tyco Electronics P/N: 1513534-1

### Description

- This is a self-standing dual band vertically polarized antenna with a 1.5m cable and a stripline connector
- 802.11a/b/g coverage

### Electrical

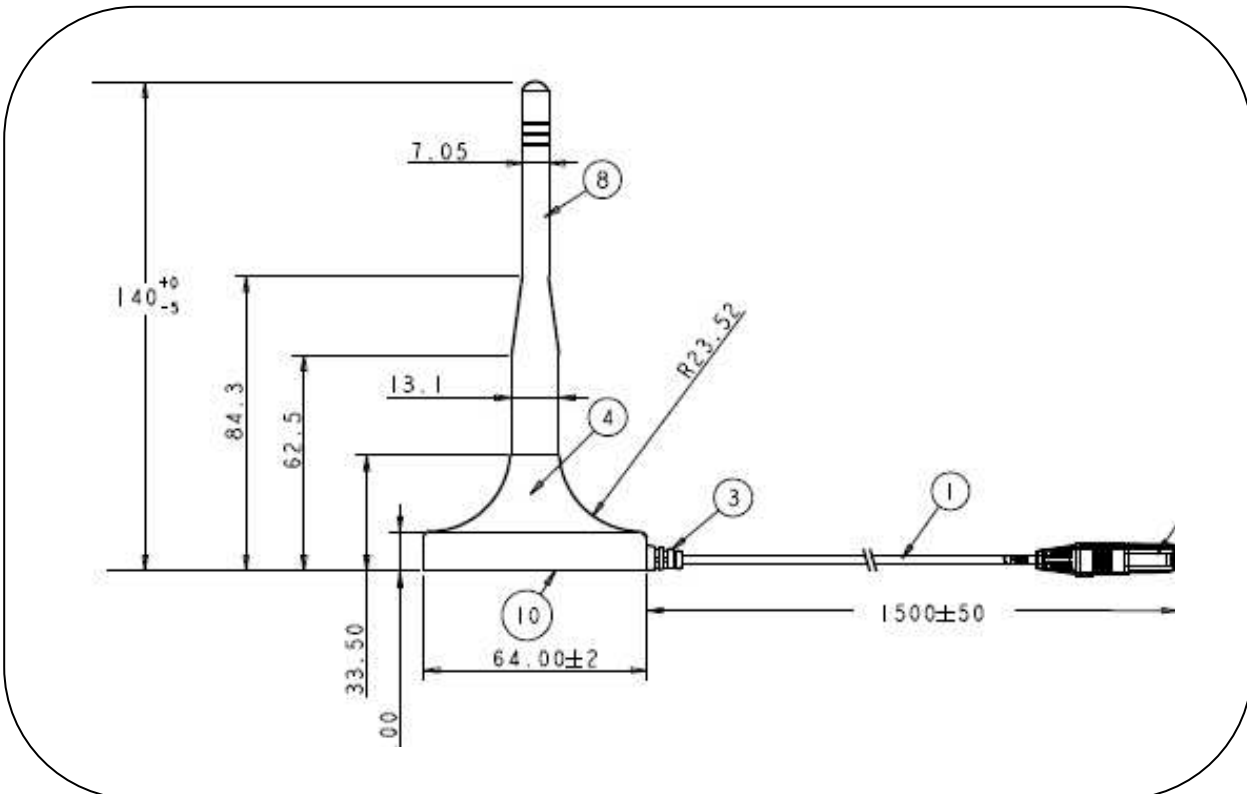
Frequency Range (GHz)	2.39 – 2.5; 4.9 – 5.85
Gain at connector	>-3 dBi @ 2.4 Ghz >-5 dBi @ 5 GHz
Return Loss	< -10 dB
VSWR	< 2.0:1
Operating Temperature	-40°C to 70°C
Polarization	Vertical
Power Handling	10 Watt Max.
Feed Point Impedance	50 Ohms

### Mechanical

Size	140 mm x 64 mm dia.
Weight	100 g

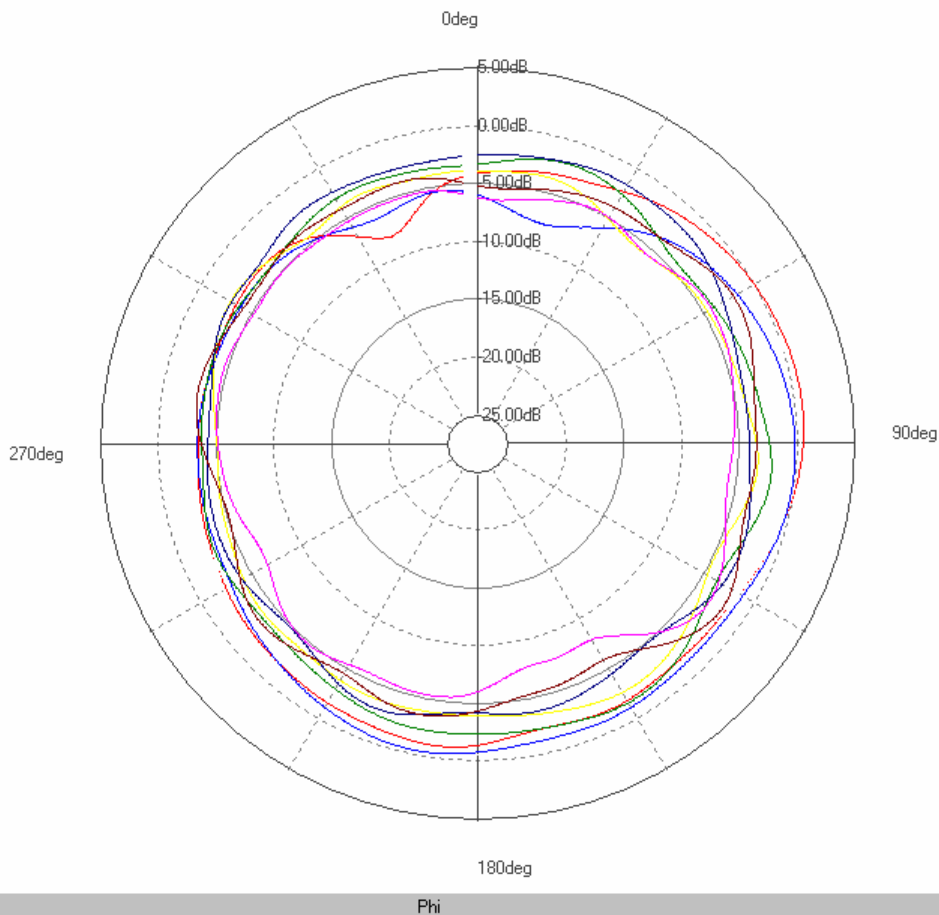


### Dimensions



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- Legend
- 2400(MHz)
  - 2500(MHz)
  - 4899.999744(MHz)
  - 5150.000128(MHz)
  - 5350.000128(MHz)
  - 5725.000192(MHz)
  - 5849.999872(MHz)



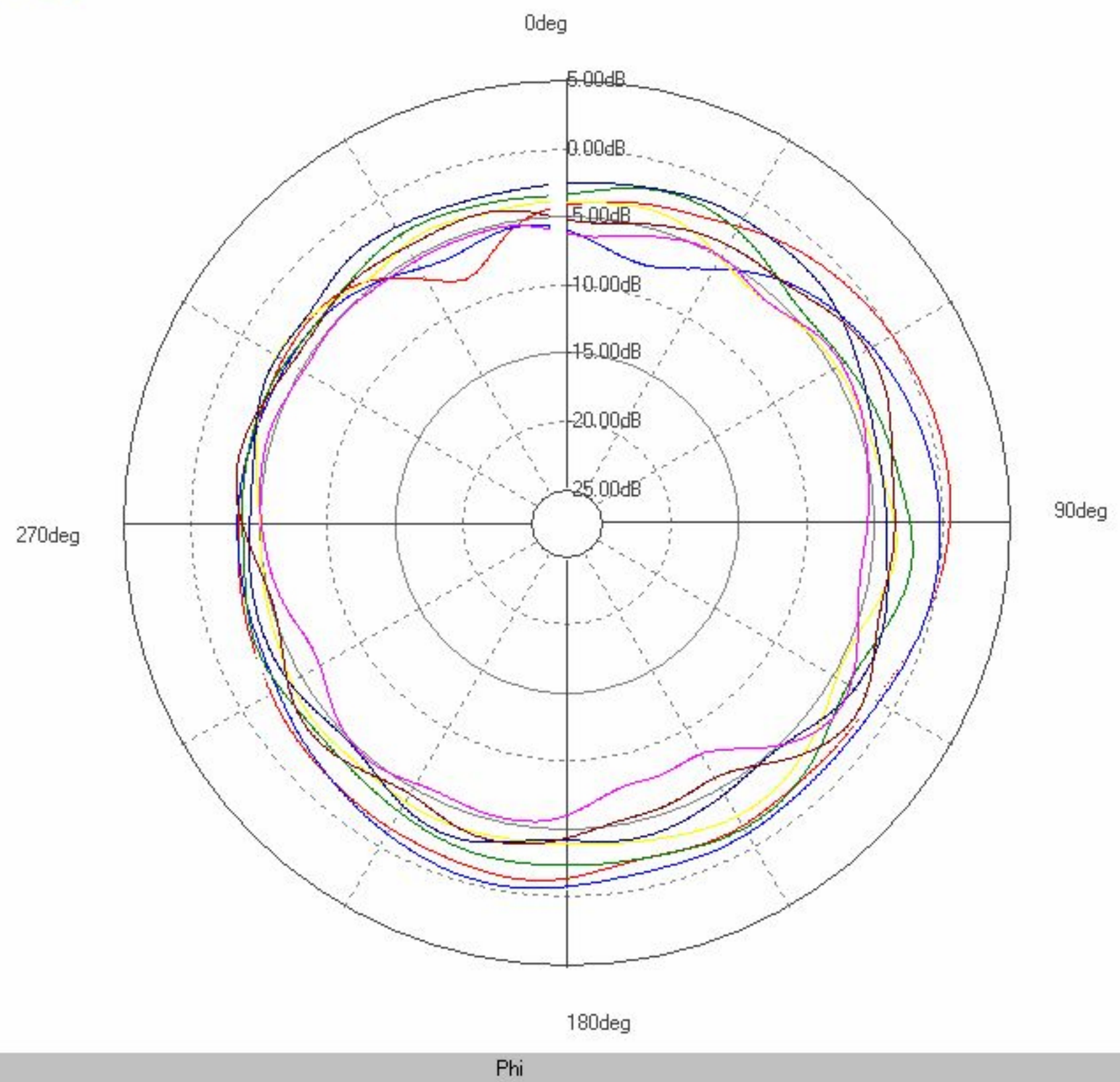
5.00

	Max value	Position	Min val...	Position	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...
MHz)	0.64 dB	81.58 deg	-8.23 dB	337.50 ...	-2.22 dB	-9.02	---	---	---	---
99872[...	0.40 dB	84.37 deg	-8.91 dB	334.70 ...	-2.51 dB	-10.74	---	---	---	---
MHz)	-0.14 dB	95.63 deg	-7.80 dB	16.88 deg	-2.63 dB	-11.73	---	---	---	---
99744[...	-2.65 dB	146.28 deg	-5.77 dB	39.37 d...	-4.07 dB	-24.64	---	---	---	---
00128[...	-1.65 dB	149.05 deg	-4.38 dB	50.63 d...	-3.08 dB	-15.56	---	---	---	---
00128[...	-1.77 dB	28.12 deg	-4.95 dB	140.63 d...	-3.42 dB	-18.42	---	---	---	---
00192[...	-2.05 dB	61.88 deg	-5.96 dB	151.88 d...	-3.92 dB	-23.10	---	---	---	---
99872[...	-3.34 dB	123.75 deg	-8.06 dB	151.87 d...	-5.45 dB	-40.49	---	---	---	---

# Tyco Sample #1 Az Gain



- Legend
- 2400(MHz)
  - 2500(MHz)
  - 4899.999744(MHz)
  - 5150.000128(MHz)
  - 5350.000128(MHz)
  - 5725.000192(MHz)
  - 5849.999872(MHz)



Layer	Max value	Position	Min val...	Position	Average	Standar...	Marker 1 pos	Marker 1 val...	Marker 2 pos	Marker 2 val...	Maximum	Position
2400(MHz)	0.64 dB	81.58 deg	-8.23 dB	337.50 ...	-2.22 dB	-9.02	---	---	---	---		
2449.999872(...)	0.40 dB	84.37 deg	-8.91 dB	334.70 ...	-2.51 dB	-10.74	---	---	---	---		
2500(MHz)	-0.14 dB	95.63 deg	-7.80 dB	16.88 deg	-2.63 dB	-11.73	---	---	---	---		
4899.999744(...)	-2.65 dB	146.28 deg	-5.77 dB	39.37 d...	-4.07 dB	-24.64	---	---	---	---		
5150.000128(...)	-1.65 dB	149.05 deg	-4.38 dB	50.63 d...	-3.08 dB	-15.56	---	---	---	---		
5350.000128(...)	-1.77 dB	28.12 deg	-4.95 dB	140.63 d...	-3.42 dB	-18.42	---	---	---	---		
5725.000192(...)	-2.05 dB	61.88 deg	-5.96 dB	151.88 d...	-3.92 dB	-23.10	---	---	---	---		
5849.999872(...)	-3.34 dB	123.75 deg	-8.06 dB	151.87 d...	-5.45 dB	-40.49	---	---	---	---		