

# WIFI DUAL-BAND MAGNETIC SMA ANTENNA

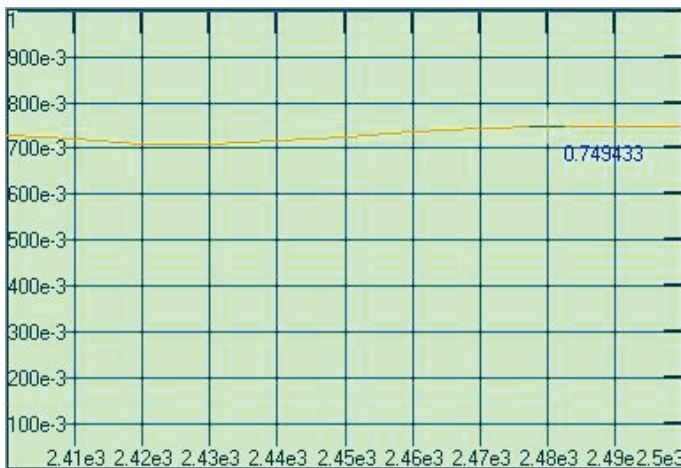


## 1. GENERAL SPECIFICATIONS

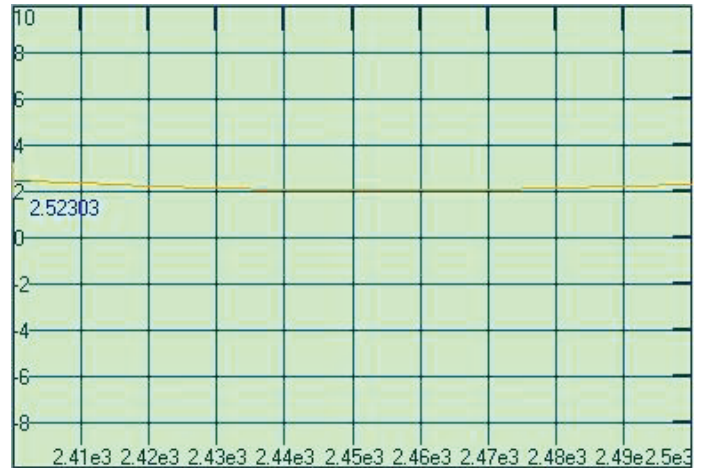
Part Number	PR1KRD30
Manufacturer	TELTONIKA NETWORKS UAB
Manufacturer Address	Barsausko g. 66, LT-51436, Kaunas, Lithuania
Frequency Range	2400-2500/4950-5850 MHz
Polarization	Linear
Gain	3.59 dBi max.
V.S.W.R	2.0 max.
Impedance	50 Ω
Cable	RG174, 1500 mm
Connector	RP-SMA Male
Operating Temperature	-40 °C to +70 °C
IP rating	IP50
RoHS Compliant	✓

## 2. EFFICIENCY & GAIN (dBi)

### 2400-2500 MHz

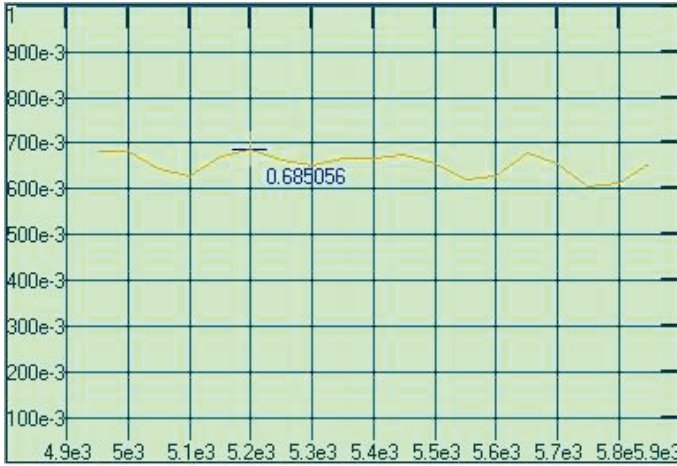


Maximum Efficiency at 2480 MHz : 74.94 %



Maximum Peak Gain at 2400 MHz : 2.52 dBi

4950-5850 MHZ



Maximum Efficiency at 5200 MHz : 68.51%

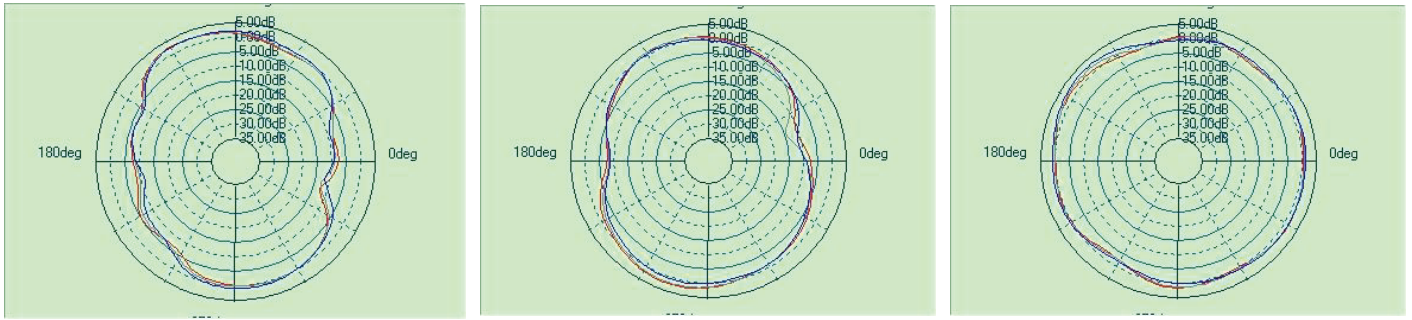


Maximum Peak Gain at 4950 MHz : 3.59 dBi

Frequency, MHz	Peak gain, dBi	Efficiency, %
2400	2.52	72.81
2450	2.15	72.53
2500	2.38	74.69
4950	3.59	68.13
5150	2.86	67.05
5350	3.03	66.66
5550	2.29	61.95
5850	2.13	65.45

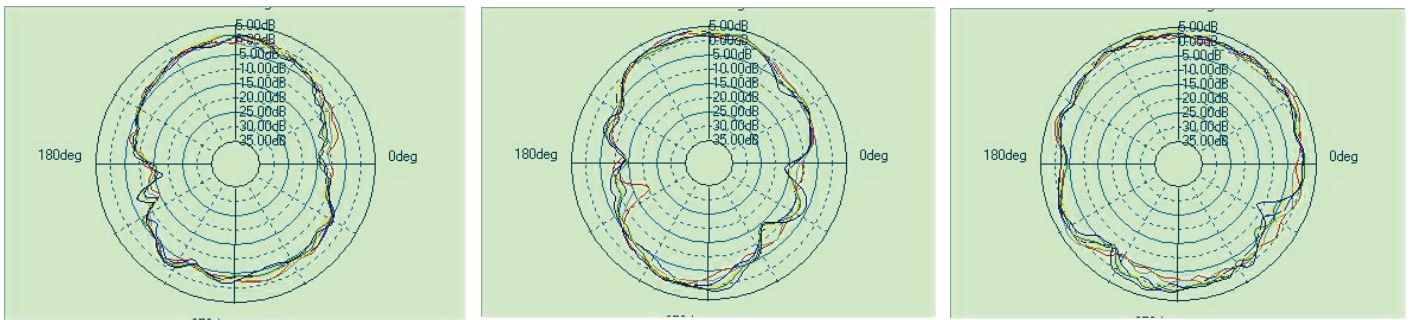
**3. 2D RADIATION PATTERN**

**2400-2500 MHz**



Frequency, MHz	ZX plane		ZY plane		XY plane	
	Max Value, dB	Average, dB	Max Value, dB	Average, dB	Max Value, dB	Average, dB
2400	1.97	-2.32	2.14	-1.68	1.60	0.12
2450	1.66	-2.30	1.75	-2.04	1.56	0.33
2500	1.69	-1.98	0.37	-2.59	2.38	0.56

**4950-5850 MHz**



Frequency, MHz	ZX plane		ZY plane		XY plane	
	Max Value, dB	Average, dB	Max Value, dB	Average, dB	Max Value, dB	Average, dB
4950	2.52	-2.25	1.28	-3.18	1.21	-1.18
5150	2.55	-2.13	-0.01	-3.29	1.37	-1.32
5350	1.95	-2.24	1.21	-3.24	1.68	-1.05
5550	1.62	-2.30	1.19	-3.14	1.51	-1.16
5850	1.96	-1.93	-0.29	-2.82	0.87	-1.08

4. MECHANICAL PROPERTIES

