DRA2G5GD002 Specification 5dBi Dual band Dipole Antenna

1. Feature

- *External type dipole antenna
- * 2.4GHz/5GHz of frequency
- * SMA Plug interface
- * Plastic rod of black
- * RoHS compliance

2. Application

- * 2.4GHz/5GHz Wireless Communication
- * WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

3. Description

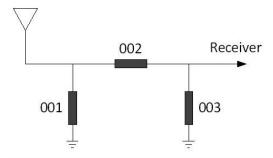
This miniature antenna is designed for 2.4GHz/5GHz applications and can be easily built-in portable devices with MHF processes. It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. General Data

Product Name	5dBi Dual band Dipole Antenna		
Part No.	DRA2G5GD002		
Frequency	2.4~2.5GHz&5.15~5.85GHz		
V.S.W.R	≤2.0		
Gain (dBi)	2.4GHz@3.0dBi 5GHz@5.0dBi		
Polarization	Linear,Vertical		
Storage Temp	-10℃~+70℃		
Operating Temperature	-10℃~+60℃		
Impedance with Matching	50 Ω		
Weight	21.5 g		
Antenna Type	SMA PLUG		
Dimension	L218.5 X 0 13 (mm)		

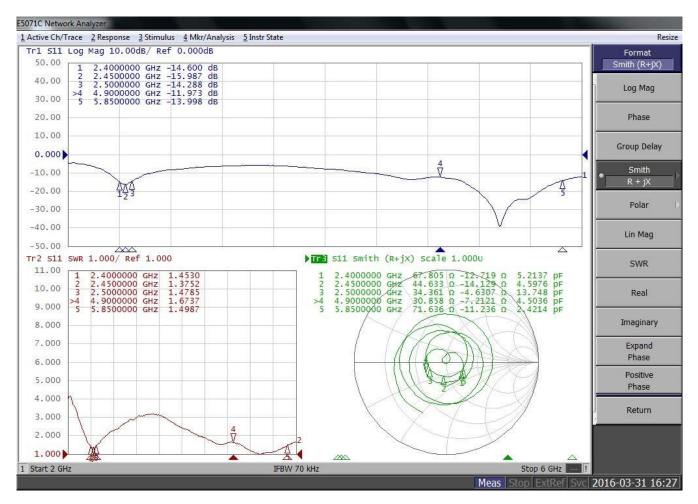
5. Typical Electrical Characteristics

Recommend MatchingCircuit



Reference:	
	001=(N/A)
	002=0 Ω
	003=(N/A)

Return loss、VSWR& Smith chart

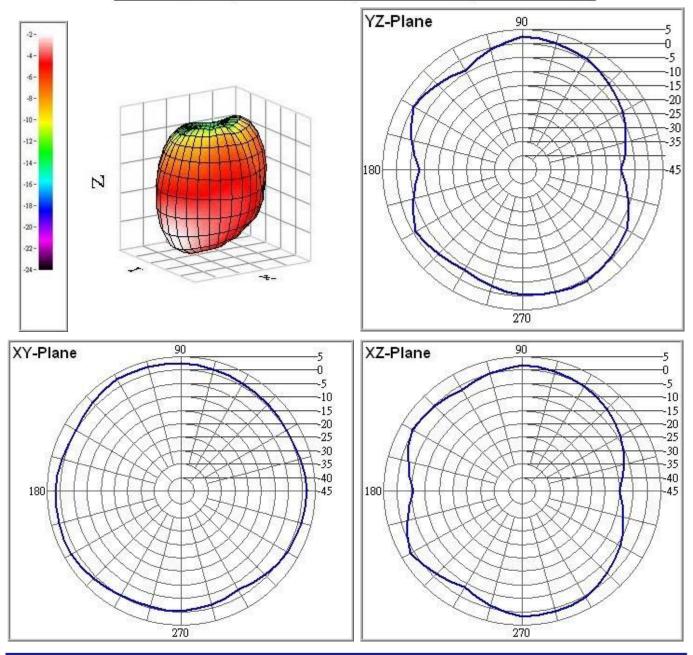


High performance product for you

≻ Gain (dBi)

Frequency = 2400 MHz

dBm	XY-Plane	XZ-Plane	YZ-Plane	
H-Pol. (Peak.)	2.533257	1.847384	2.388772	
V-Pol. (Peak.)	-7.394141	-7.528106	-9.612384	
H+V. (Peak.)	2.953834	1.910461	2.457024	
H-Pol. (Avg.)	1.017205	-0.925111	-1.617949	
V-Pol. (Avg.)	-14.255253	-13.671993	-12.570356	
H+V. (Avg.)	1.144312	-0.700305	-1.282473	
Angle	XY-Plane	XZ-Plane	YZ-Plane	
H-Pol. (Peak.)	120	270	90	
V-Pol. (Peak.)	'-Pol. (Peak.) 120		60	
H+V. (Peak.) 120		270		

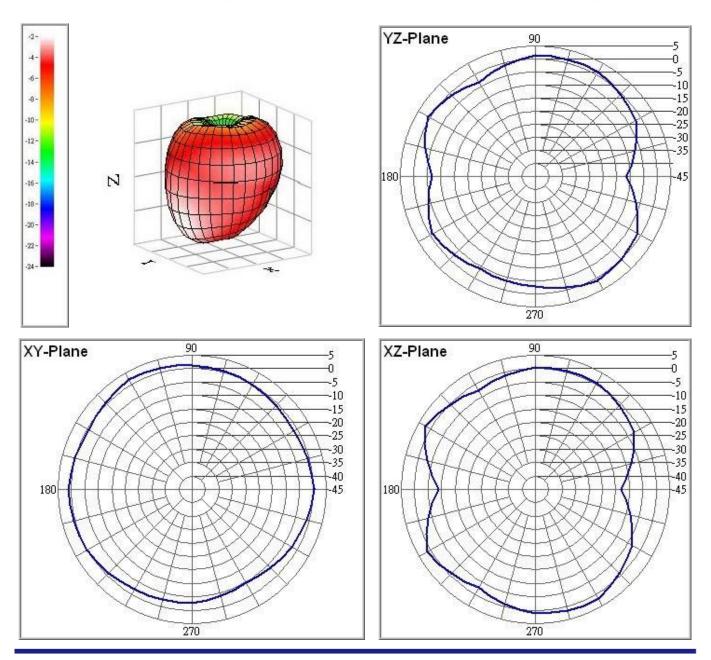


High performance product for you

≻ Gain (dBi)

Frequency = 2450 MHz

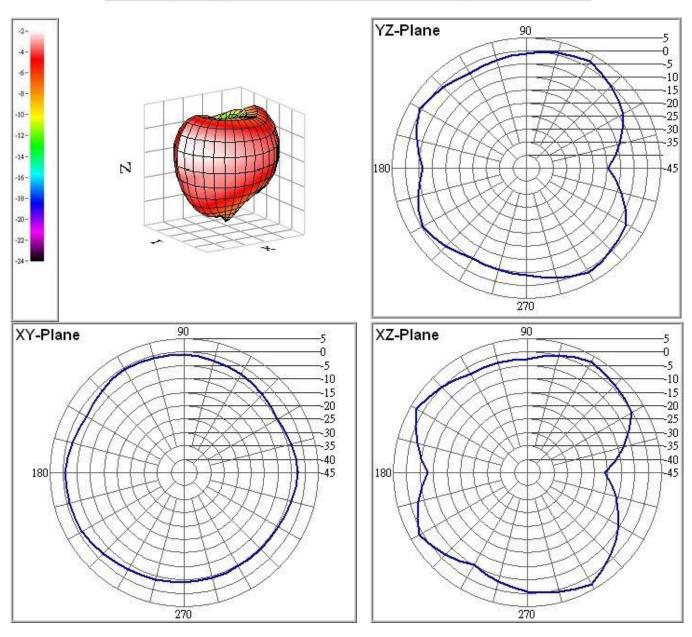
dBm		XY-Plane	XZ-Plane	YZ-Plane	
H-Pol.	(Peak.)	1.888438	2.06223	1.141488	
V-Pol.	(Peak.)	-9.899412	-9.899412 -6.802034		
H+V.	(Peak.)	2.167047	2.379037	1.342182	
H-Pol.	(Avg.)	-0.46296	-0.795769	-1.804188	
V-Pol.	(Avg.)	-16.023059	-12.487565	-10.848453	
H+V.	(Avg.)	-0.343888	-0.51113	-1.294145	
Angle		XY-Plane	XZ-Plane	YZ-Plane	
H-Pol. (Peak.)		120	300	90	
V-Pol.	(Peak.)	120	150	300	
H+V.	H+V. (Peak.) 12		150	9	



High performance product for you

Gain (dBi)Frequency = 2500 MHz

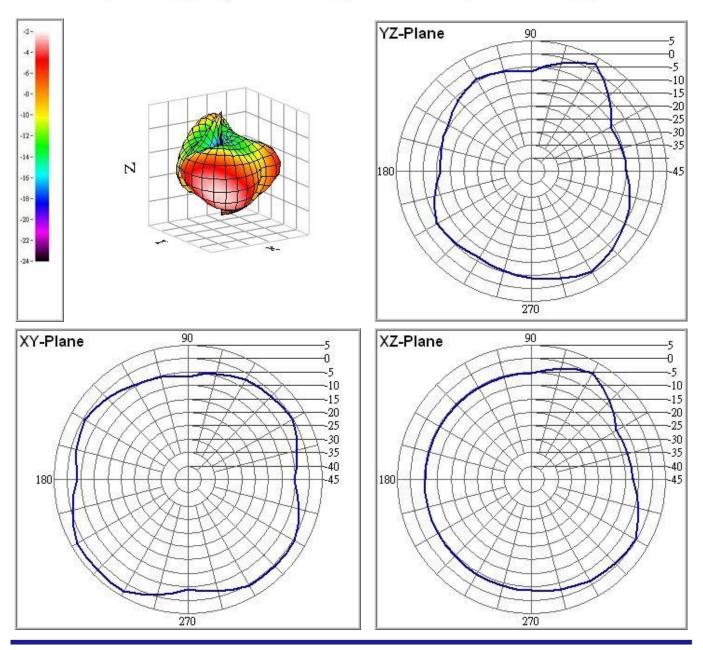
dBm	XY-Plane	XZ-Plane	YZ-Plane	
H-Pol. (Peak.)	-0.694667	2.862597	2.215434	
V-Pol. (Peak.)	-11.087523	-7.270118	-7.499572	
H+V. (Peak.)	-0.315021	3.006369	2.352811	
H-Pol. (Avg.)	-2.600478	-0.771349	-1.903437	
V-Pol. (Avg.)	-16.759422	-11.480948	-11.744287	
H+V. (Avg.)	-2.436914	-0.417347	-1.474798	
Angle	XY-Plane	XZ-Plane	YZ-Plane	
H-Pol. (Peak.)	120	300	60	
V-Pol. (Peak.)	120	210	10 30	
H+V. (Peak.) 12		300	60	



High performance product for you

> Gain (dBi) Frequency = 5150 MHz

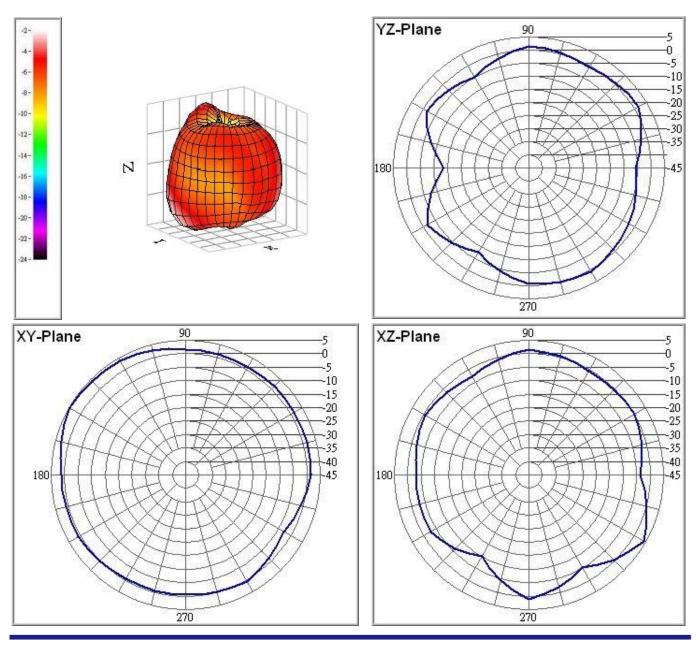
dBm	XY-Plane	XZ-Plane	YZ-Plane	
H-Pol. (Peak.)	2.907052	0.593259	2.332601	
V-Pol. (Peak.)	-6.618532	-6.104913	-9.010549	
H+V. (Peak.)	3.041484	0.819128	2.460234	
H-Pol. (Avg.)	-0.977351	-4.049478	-4.62191	
V-Pol. (Avg.)	-11.861793	-11.83227	-11.792595	
H+V. (Avg.)	-0.636786	-3.380193	-3.859743	
Angle	XY-Plane	XZ-Plane	YZ-Plane	
H-Pol. (Peak.)	240	60	60	
V-Pol. (Peak.)	150	300	270	
H+V. (Peak.) 240		60	60	



High performance product for you

> Gain (dBi) Frequency = 5800 MHz

dBm	XY-Plane	XZ-Plane	YZ-Plane	
H-Pol. (Peak.)	4.597415	4.137565	1.599898	
V-Pol. (Peak.)	-4.172994	-3.075796	-6.707426	
H+V. (Peak.)	4.716626	4.3295	1.726938	
H-Pol. (Avg.)	1.177323	-1.259963	-2.081868	
V-Pol. (Avg.)	-9.54566	-8.657941	-10.400245	
H+V. (Avg.)	1.530277	-0.533587	-1.48515	
Angle	XY-Plane	XZ-Plane	YZ-Plane	
H-Pol. (Peak.)	150	330	30	
V-Pol. (Peak.)	120	150	90	
H+V. (Peak.)		330	30	

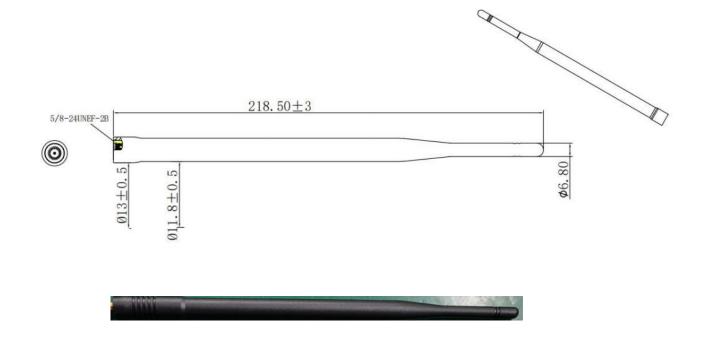


High performance product for you

> Efficiency (%)

Total/ Frequency	Ant. Port	Tot.Rad. Pwr.(dBm)	Peak EIRP(dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain(dBi)
2400	0	-0.551292	2.953834	3.505127	-0.551292	88.078679	2.953834
2437	0	-0.417783	2.47196	2.889744	-0.417783	90.828397	2.47196
2442	0	-0.569781	2.30174	2.871521	-0.569781	87.704499	2.30174
2450	0	-0.651024	2.379037	3.030061	-0.651024	86.079078	2.379037
2484	0	-0.809978	2. 326679	3.136657	-0.809978	82.985493	2.326679
2500	0	-0.763333	3.006369	3.769702	-0.763333	83.881597	3,006369
5150	0	-1.769298	3.596862	5.36616	-1.769298	66.538074	3.596862
5250	0	-0. 420633	4.954602	5. 375236	-0.420633	90.768819	4.954602
5260	0	-0.038325	5.863335	5.90166	-0.038325	99.121418	5.863335
5350	0	-1.005398	5. 479673	6. 485071	-1.005398	79.334154	5.479673
5440	0	-0.627549	5.106631	5.73418	-0.627549	86.545614	5.106631
5470	0	-0.826488	4. 953849	5.780337	-0.826488	82.670628	4.953849
5530	0	0.128241	5.460569	5. 332329	0.128241	102.996883	5.460569
5620	0	-0.490127	5.047398	5. 537524	-0.490127	89.327945	5.047398
5710	0	-1.29739	4.350057	5.647447	-1.29739	74.175586	4.350057
5725	0	-1.596735	3. 540759	5.137495	-1.596735	69.235121	3.540759
5800	0	0.126234	5.04431	4.918076	0.126234	102.949298	5.04431
5875	0	-0.545577	3.866189	4. 411766	-0.545577	88.194661	3.866189
5890	0	-1.236825	4.060992	5.297817	-1.236825	75.217263	4.060992

6. Dimension



High performance product for you