

AD-103AG

Antenna Approval Sheet

Part Number	R3410110203
Product Number	AD-103AG
Description	Dipole Antenna, 2dBi 2.4GHz/5GHz, RP-SMA(M) connector
DOC NO	AS-1905003

Ver. 1.3

Revised History

Version	Purpose	Date	Responsible
1.0	Initial Doc	2019/06/13	Aaron
1.1	Added Antenna picture (Page 12)	2019/08/06	kamoro
1.2	Revised Operating Temperature (Page 3)	2019/08/21	Aaron
1.3	Added Ant Gain in 5895 GHz(Page 3)	2022/10/04	Christina

SparkLAN		Customer
Sales	PM	Approval by
	Aaron	

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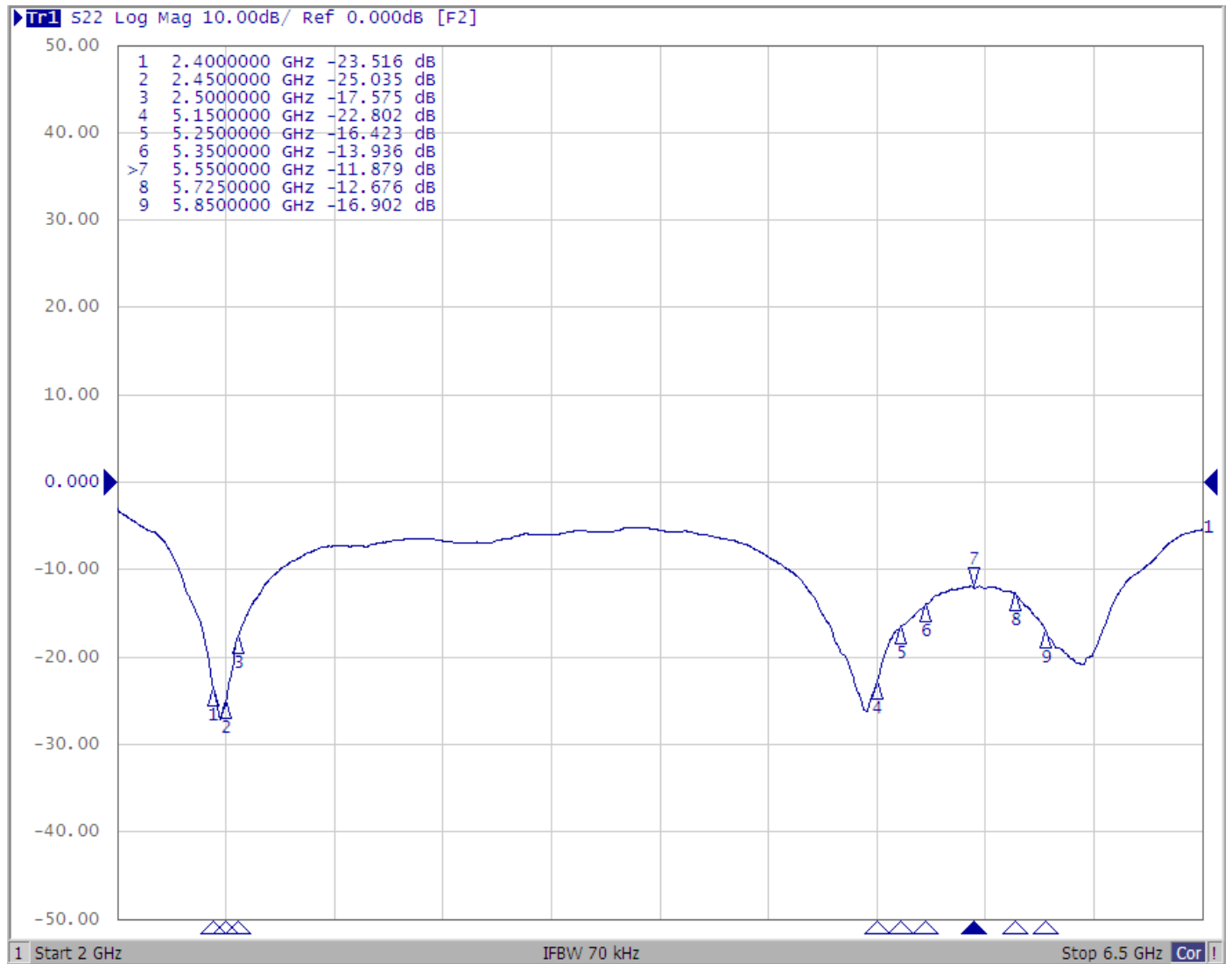
SPECIFICATION

- | | |
|-------------------------------|---|
| 1. Description | : Dual Band Dipole Antenna
with RP-SMA(M)(Black) |
| 2. Customer | : |
| 3. Model No. | : AD-103AG |
| 4. Part No. | : R3410110203 |
| 5. Standard | : IEEE 802.11a/b/g Wireless LAN |
| 6. Antenna Profile | : 157 mm (see Drawing) |
| 7. Color | : Black |
| 8. Electrical Characteristics | |
| Operating Frequency | : 2.4~2.5 & 5.15~5.895GHz |
| Antenna Type | : Dipole |
| Polarization Type | : Linear |
| Type of Radiation | : Toroidal |
| Peak Gain | : 2.0±1 dBi Typical |
| Impedance | : 50 Ohm nominal |
| V.S.W.R. | : 2.0:1 Max. |
| 9. Mechanical Characteristics | |
| Connector | : RP-SMA(M) |
| Core | : N/A |
| 10. Raw Material | |
| Coaxial Cable | : RG-178 |
| Housing | : TPU |
| Hinge | : PC+ALLOY |
| 11. Operating Temperature | : -40°C~+85°C |

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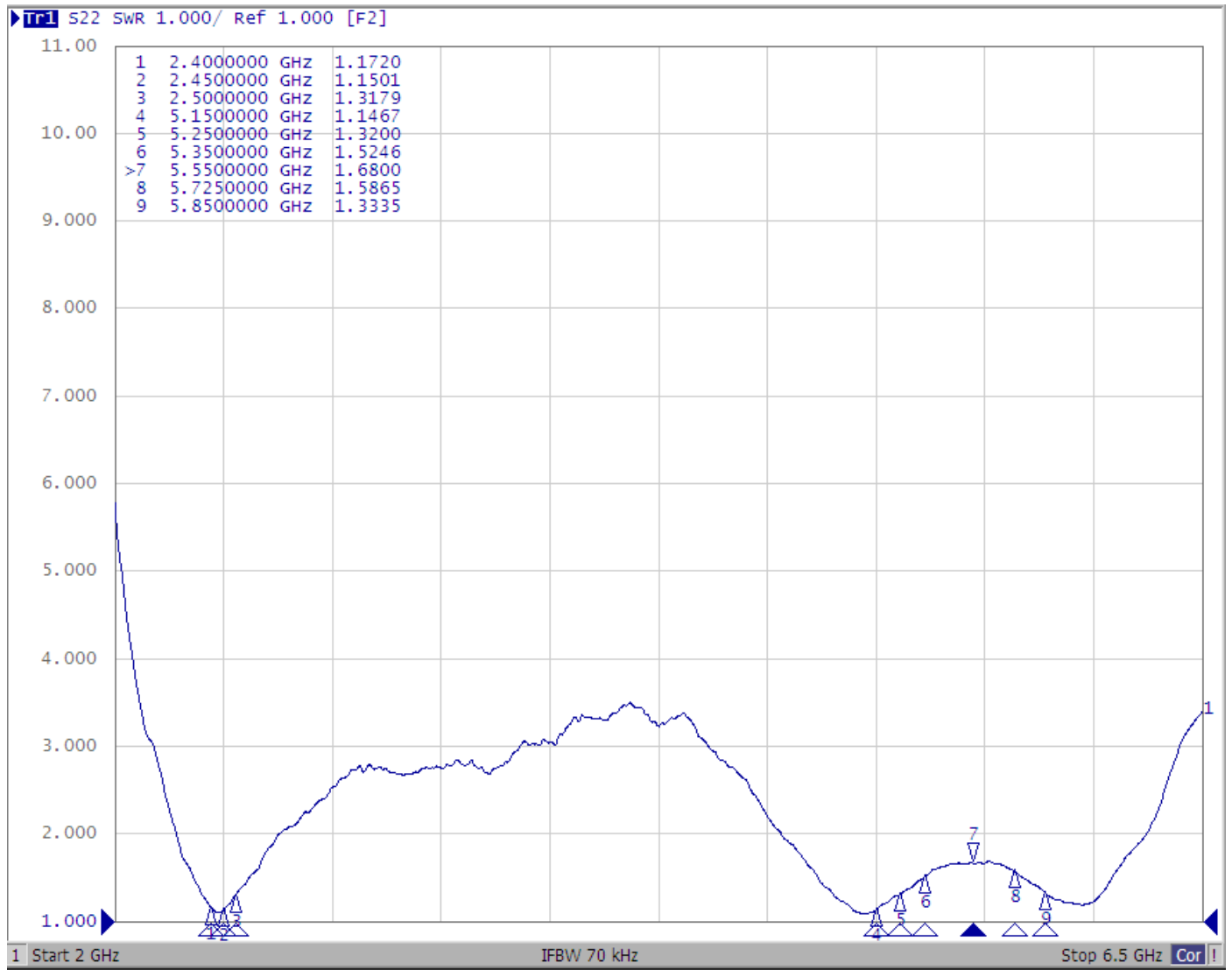
Electrical Properties

Return Loss



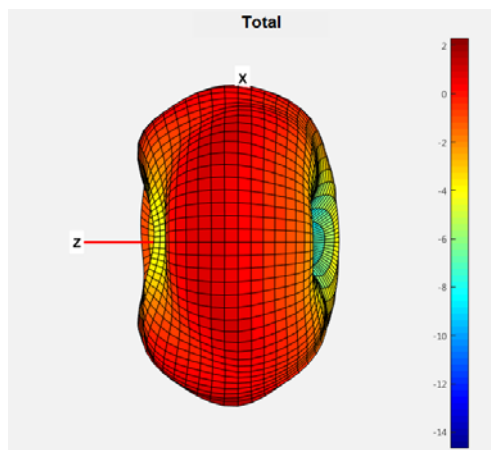
Electrical Properties

V.S.W.R

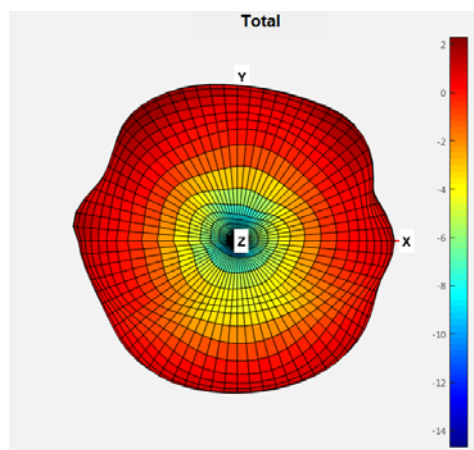


3D Pattern

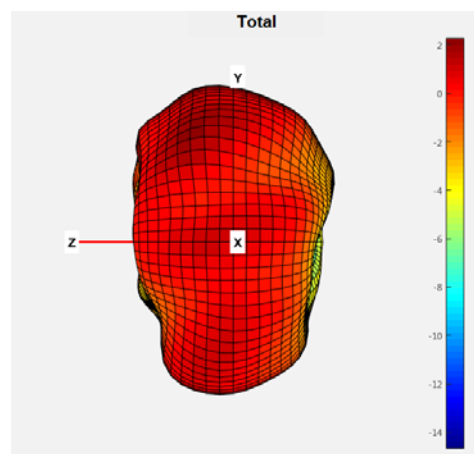
2.45GHz_X-Z Plane



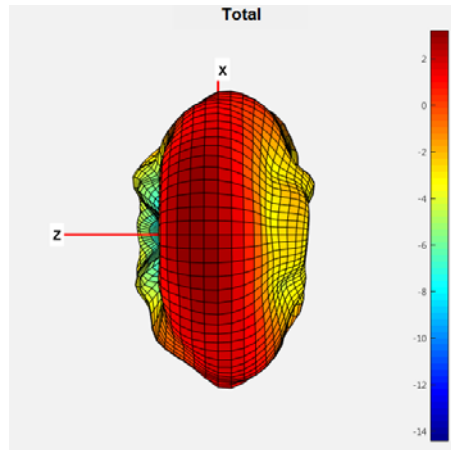
2.45GHz_X-Y Plane



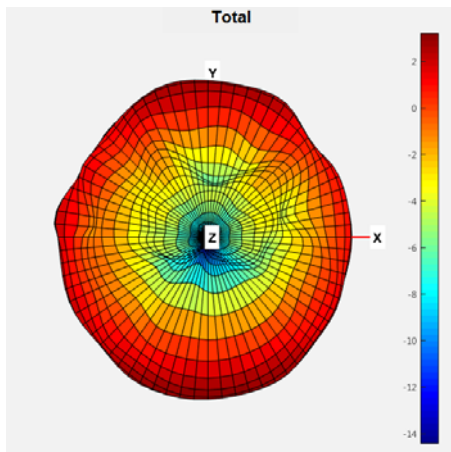
2.45GHz_Y-Z Plane



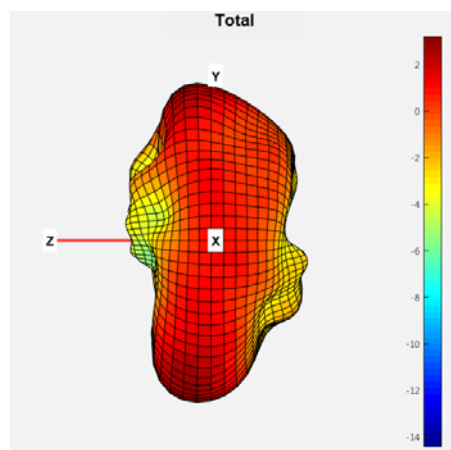
5.15GHz_X-Z Plane



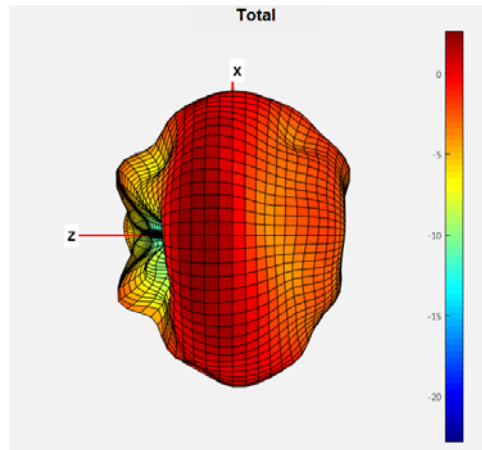
5.15GHz_X-Y Plane



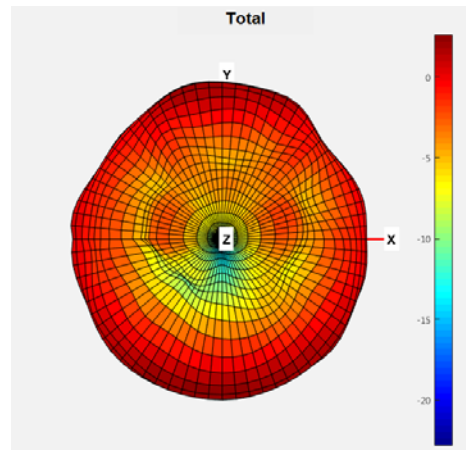
5.15GHz_Y-Z Plane



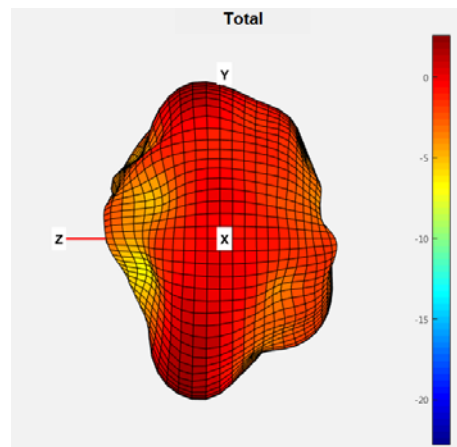
5.55GHz_X-Z Plane



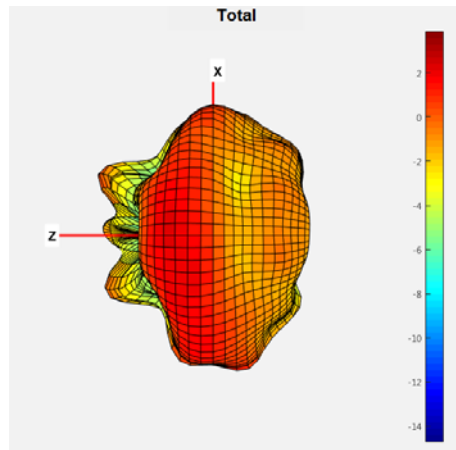
5.55GHz_X-Y Plane



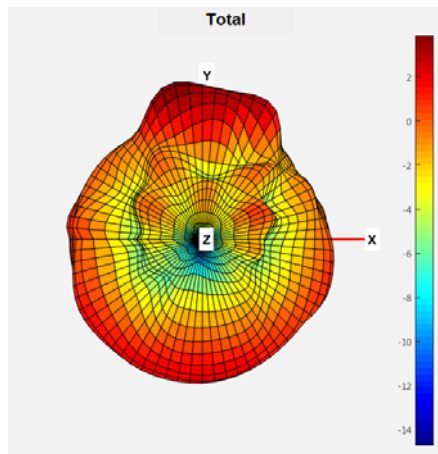
5.55GHz_Y-Z Plane



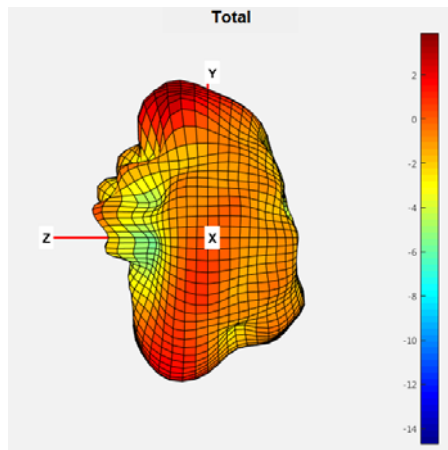
5.85GHz_X-Z Plane



5.85GHz_X-Y Plane



5.85GHz_Y-Z Plane



Frequency	2.4GHz	2.45GHz	2.5GHz
Avg. Gain (dBi)	-1.92	-2.39	-2.32
Peak Gain (dBi)	2.02	1.83	1.96
Efficiency (%)	64.27	57.68	58.61

Frequency	5.15GHz	5.25GHz	5.35GHz
Avg. Gain (dBi)	-1.18	-1.87	-2.35
Peak Gain (dBi)	1.63	1.93	1.37
Efficiency (%)	76.21	65.01	58.21

Frequency	5.47GHz	5.5GHz	5.55GHz	5.6GHz	5.725GHz	5.85GHz	5.875GHz	5.895GHz
Avg. Gain (dBi)	-1.8	-1.8	-1.8	-1.75	-1.7	-1.84	-2.08	-2.14
Peak Gain (dBi)	1.71	1.6	1.49	1.76	2.03	1.9	1.5	1.86
Efficiency (%)	66.07	66.07	66.07	66.84	67.61	65.46	61.94	61.09

Antenna picture

