




# SPECIFICATION SHEET

## WIFI DUAL ANTENNA

MESSERS.	
DESCRIPTION	WIFI DUAL ANTENNA
PART No.	FES-23DA0D

ACCEPTANCE		
PREPARED	CHECKED	APPROVED
/	/	/

SUPPLIER		
PREPARED	CHECKED	APPROVED
		
09/05	09/05	09/05

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## ◆ REVISION HISTORY

NO	DATE	REVISION	NOTE	AUTHORS
1	2024.09.05	00	First Draft	LEE.

### ◆ APPLICATIONS

- WIRELESS NETWORKING, INTERNET ACCESS, DATA TRANSMISSION
- INTERNET OF THINGS, SMART HOME AUTOMATION, WIRELESS SURVEILLANCE SYSTEMS
- WIRELESS COMMUNICATION INFRASTRUCTURE, WIRELESS AUDIO AND ENTERTAINMENT

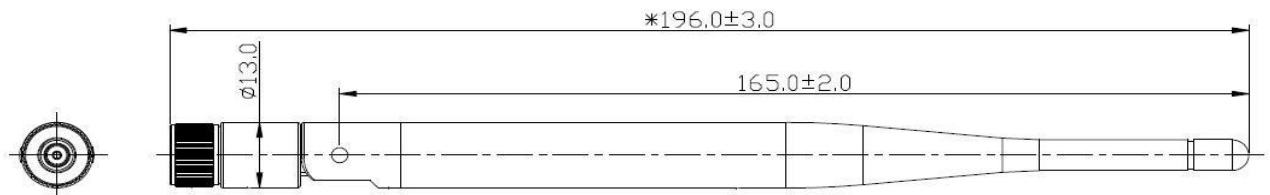
### ◆ ELECTRICAL SPECIFICATION

ITEM		SPECIFICATIONS
Antenna	Frequency Range	2400-2500MHz/5000-5800MHz
	Polarization	Linear
	Gain	5dBi
	V.S.W.R	≤2.0
	Impedance	50Ω

### ◆ MECHANICAL AND ENVIRONMENTAL SPECIFICATION

ITEM	SPECIFICATIONS
Connector	SMA Male
Dimensions	Ø13.0x196.0±3.0mm
Operating Temperature	-40°C~+85°C
Vibration	10 to 55Hz with 1.5mm amplitude 2hours
Environmentally Friendly	ROHS Compliant

## ◆ ANTENNA DIMENSION

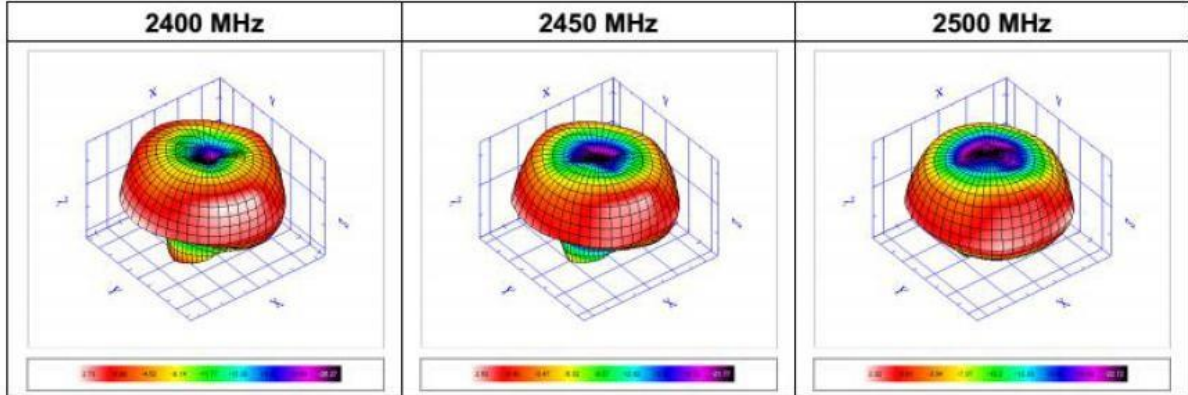


➤ Customizable Cable and Connector

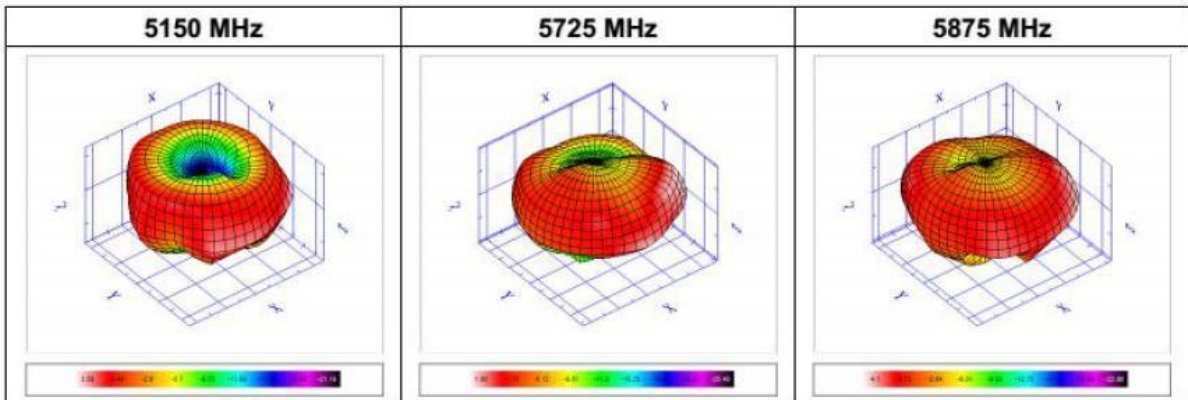
## ● Antenna Image



### ◆ RADIATION PATTERN



Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
TRP (dBm)	-1.13	-1.17	-1.2	-1.24	-1.3	-1.13	-1.23	-1.31	-1.38	-1.34	-1.25
Peak EIRP (dBm)	2.73	2.57	2.53	2.55	2.48	2.63	2.73	2.59	2.53	2.72	2.32
NHPRP +/- 45 (degree)	-1.4	-1.44	-1.46	-1.5	-1.55	-1.39	-1.51	-1.59	-1.65	-1.62	-1.51
NHPRP +/- 30 (degree)	-1.64	-1.68	-1.69	-1.72	-1.76	-1.56	-1.65	-1.72	-1.79	-1.74	-1.65
E-Theta Peak Gain (dBi)	-8.07	-9	-9.3	-9.69	-9.85	-10.33	-11.52	-11.7	-12.32	-13.15	-14.4
E-Phi Peak Gain (dBi)	2.72	2.55	2.52	2.54	2.47	2.62	2.73	2.59	2.53	2.71	2.32
E-Total Peak Gain (dBi)	2.73	2.57	2.53	2.55	2.48	2.63	2.73	2.59	2.53	2.72	2.32
Directivity (dBi)	3.86	3.74	3.73	3.79	3.77	3.75	3.97	3.91	3.9	4.06	3.57
Efficiency (%)	77.11	76.38	75.84	75.14	74.21	77.14	75.28	73.89	72.85	73.38	74.99



Frequency	5150	5250	5350	5470	5600	5725	5750	5800	5825	5850	5875
TRP (dBm)	-1.3	-1.03	-1.6	-1.1	-2.25	-2.9	-2.04	-1.95	-1.4	-1.02	-0.82
Peak EIRP (dBm)	3.59	4.3	4.28	4.74	2.6	1.65	2.59	2.49	3.82	3.9	4.1
NHPRP +/- 45 (degree)	-1.63	-1.35	-1.93	-1.5	-2.79	-3.47	-2.55	-2.41	-1.81	-1.41	-1.21
NHPRP +/- 30 (degree)	-1.53	-1.32	-1.96	-1.55	-2.87	-3.62	-2.78	-2.68	-2.17	-1.78	-1.58
E-Theta Peak Gain (dBi)	-10.72	-10.03	-10.12	-9.85	-10.6	-9.25	-9.28	-8.74	-9.99	-8.47	-8.27
E-Phi Peak Gain (dBi)	3.58	4.29	4.24	4.6	2.45	1.48	2.36	2.41	3.72	3.81	4.01
E-Total Peak Gain (dBi)	3.59	4.3	4.28	4.74	2.6	1.65	2.59	2.49	3.82	3.9	4.1
Directivity (dBi)	4.89	5.33	5.89	5.84	4.85	4.55	4.63	4.44	5.22	4.92	4.92
Efficiency (%)	74.07	78.94	69.14	77.69	59.53	51.29	62.47	63.86	72.47	79.09	82.81

● V.S.W.R&RETURN LOSS&SMITH CHART

