



Hisense

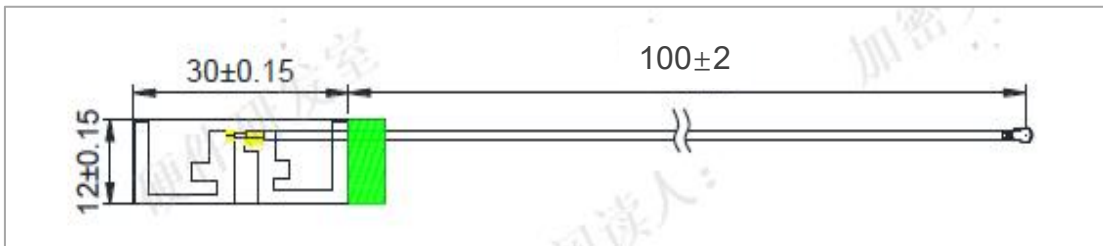
MWH648S天线规格书

2025.01.21

Hisense

Antenna Property			
Antenna Type	Dipole Antenna		
Input impedance	50Ω		
Frequency Band	2.4~2.5GHz	5.15~5.85GHz	5.9~7.125GHz
Return Loss	S11≤-10dB	S11≤-10dB	S11≤-5dB
Peak Gain	3.55dBi	3.52dBi	3.52
Efficiency(Avg.)	42.16%	41.57%	39.70%

Antenna Structure	
FPC	FPC T0.12 Single Board, Black, OSP
Backing Adhesive	3M467
Cable	1.13mm Black
Return Loss	2.4GHz~2.5GHz: S11≤-10dB 5.15GHz~5.85GHz: S11≤-8dB.
RF Connector	IPEX1 20278-112R-13

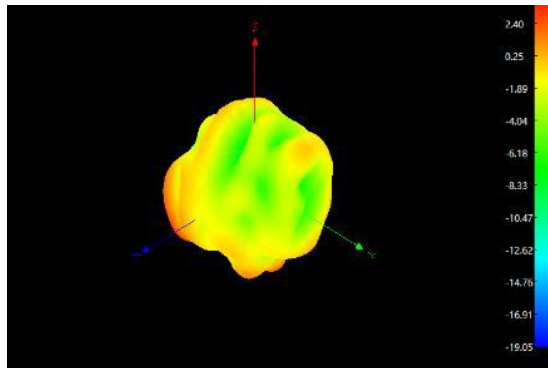


Frequency (MHz)	Efficiency (dBi)	Efficiency (%)	Peak Gain (dBi)
2400	-3.83	41.36	2.93
2450	-3.54	44.28	3.55
2500	-3.89	40.85	2.76
avq	-3.75	42.16	3.08

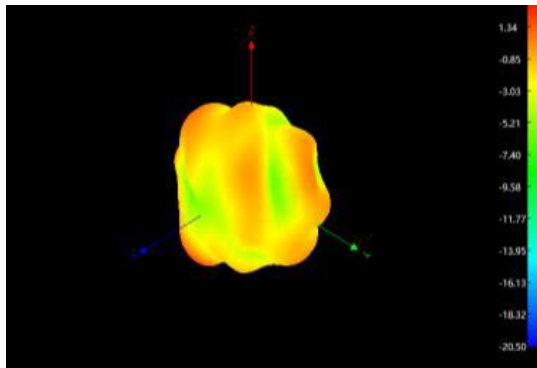
Frequency (MHz)	Efficiency (dBi)	Efficiency (%)	Peak Gain (dBi)
5150	-4.29	37.28	2.95
5200	-4.14	38.58	3.11
5250	-3.75	42.15	3.52
5300	-3.53	44.37	3.28
5350	-3.76	42.06	3.15
5400	-3.89	40.87	2.86
5450	-3.43	45.36	3.40
5500	-3.49	44.78	3.26
5550	-3.67	42.93	3.07
5600	-4.13	38.66	2.88
5650	-3.90	40.78	3.14
5700	-3.71	42.54	3.36
5750	-3.88	40.88	2.76
5800	-4.02	39.64	2.98
5850	-3.69	42.72	3.27
avq	-3.82	41.57	3.13

Frequency (MHz)	Efficiency (dBi)	Efficiency (%)	Peak Gain (dBi)
5925	-3.71	42.57	2.78
6025	-3.58	43.87	2.69
6125	-3.80	41.68	2.87
6225	-3.92	40.54	2.99
6325	-3.80	41.69	3.17
6425	-4.01	39.68	3.52
6525	-4.19	38.14	3.04
6625	-4.09	38.97	3.22
6725	-4.04	39.41	2.87
6825	-4.34	36.78	2.89
6925	-4.49	35.60	2.74
7025	-4.12	38.74	2.66
7125	-4.15	38.47	2.97
avq	-4.02	39.70	2.95

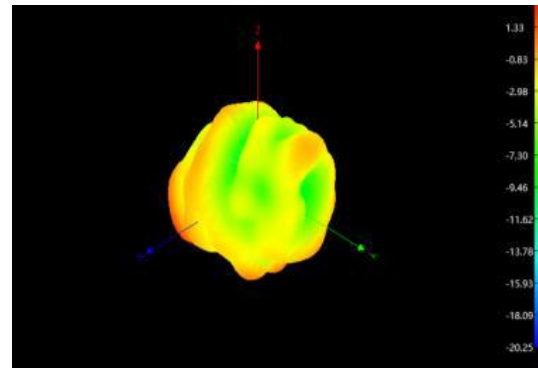
2.4G: 2400MHz



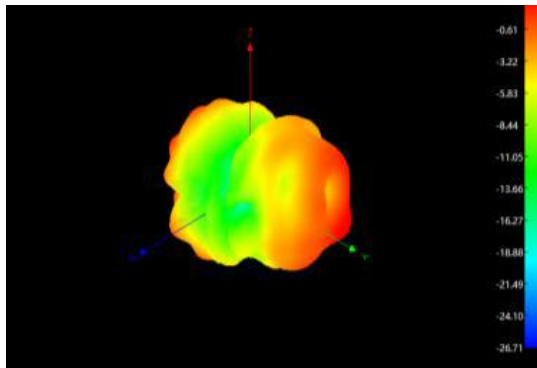
2450MHz



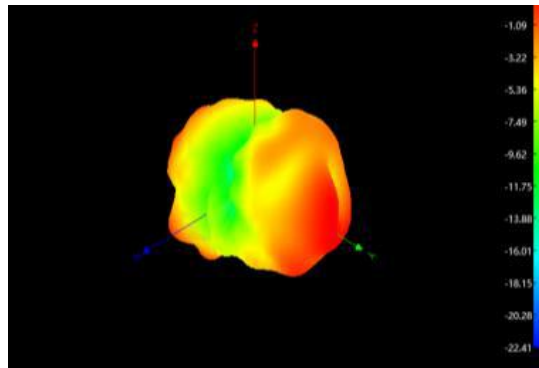
2500MHz



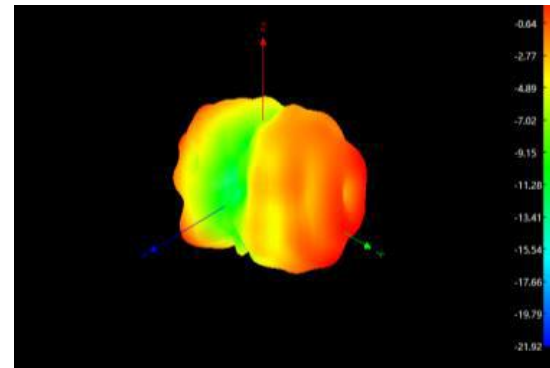
5G: 5150MHz



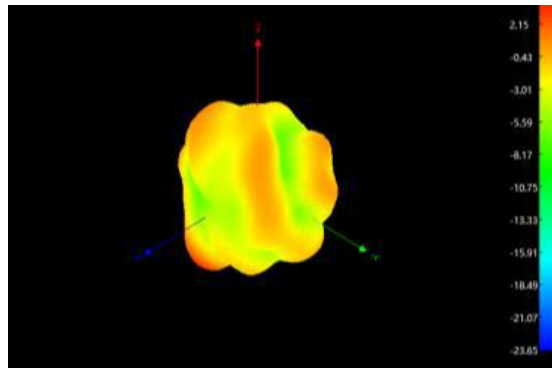
5350MHz



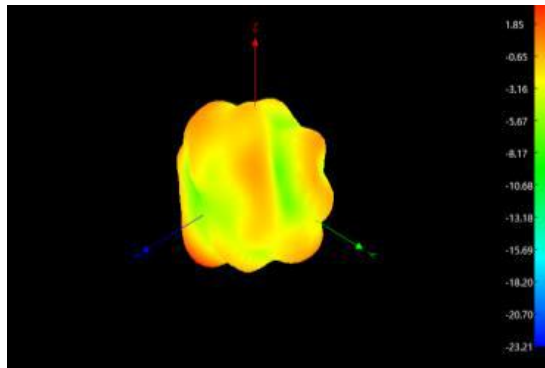
5850MHz



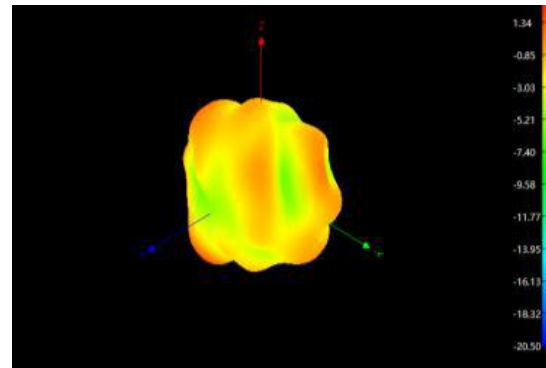
6G: 5925MHz



6525MHz

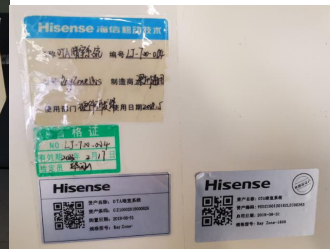
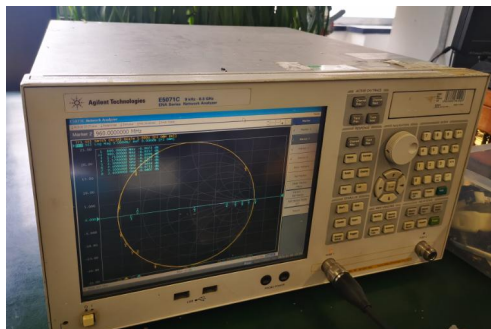


7125MHz



2.4-2.5GHz: VSWR < 2
 5.15-5.85GHz: VSWR < 2
 5.9-7.125GHz: VSWR < 3.5





Device Name	Vector network analyzer	Microwave anechoic chamber
Device Model	5071C	Rayzone 1800
Calibration Time	2024.06.11	2024.08.05
Test Time	2025.01.02	2025.01.02
Tester	Hu Wang	Hu Wang

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