

HUEIZHOU DONZHI ELECTRONICS CO.,LTD

Sample Confirmation
Letter

FOR APPROVAL

Customer Dongguan zhiyun IOTCo.,Ltd

Part NO. 10700083

Part Name Ultrasonic antenna

PartModels 2.4G-3DB-280MM

Manufacturer confirmation column			
Confirmation stamp	Design & Preparing	Review	Approval
	Liu Haohua		

Customer confirmation column			
Confirmation stamp	Testing	Review	Approval

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WiFi antenna passive test data

Frequency/Mhz	Efficiency / %
2400	40.63
2410	44.15
2420	43.36
2430	39.08
2440	41.88
2450	41.4
2460	41.21
2470	45.71
2480	43.35
2490	47.1
2500	45.5

Frequency/Mhz	MaxGain/dBi
2400	1.7
2410	1.58
2420	1.6
2430	1.61
2440	1.66
2450	1.76
2460	1.65
2470	1.47
2480	1.33
2490	1.5
2500	1.52

WiFi antenna passive test data

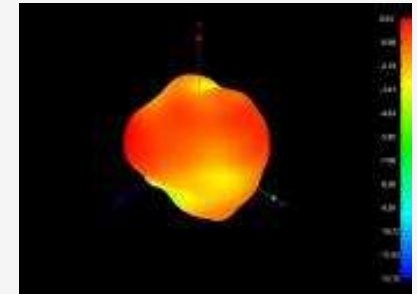
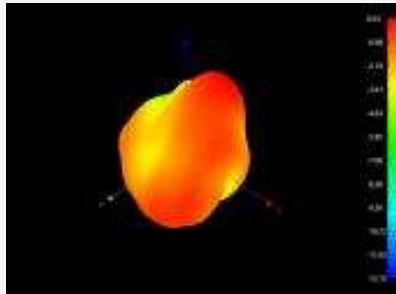
Frequency/Mhz	Efficiency / %	Frequency/Mhz	Efficiency / %	Frequency/Mhz	Efficiency / %
5150	50.93	5390	53.33	5630	41.88
5170	49.32	5410	52	5650	41.4
5190	50	5430	49.09	5670	40.09
5210	52.12	5450	50.93	5690	39.81
5230	52.6	5470	50.7	5710	40.36
5250	53.58	5490	46.34	5730	42.07
5270	53.7	5510	42.95	5750	42.27
5290	53.33	5530	40.93	5770	39.45
5310	51.88	5550	43.45	5790	38.82
5330	52.36	5570	44.06	5810	39.63
5350	53.46	5590	44.87	5830	40.93
5370	52.12	5610	43.85	5850	40.74

WiFi antenna passive test data

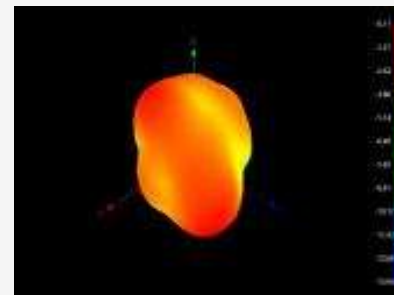
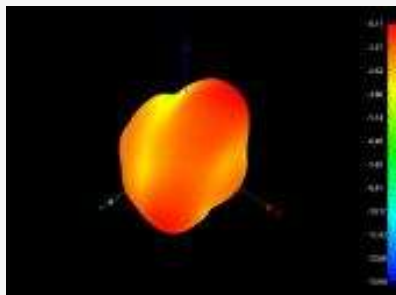
Frequency/Mh	MaxGain/dBi	Frequency/Mh	MaxGain/dBi	Frequency/Mh	MaxGain/dBi
5150	2.88	5390	3.13	5630	2.17
5170	2.62	5410	2.88	5650	1.86
5190	2.63	5430	2.21	5670	1.85
5210	2.73	5450	2.3	5690	2.1
5230	2.78	5470	2.58	5710	2.16
5250	2.61	5490	1.96	5730	2.24
5270	2.59	5510	2.03	5750	2.23
5290	2.61	5530	1.65	5770	2
5310	2.65	5550	1.92	5790	1.71
5330	2.51	5570	2.4	5810	1.57
5350	2.97	5590	2.66	5830	1.51
5370	3.31	5610	2.37	5850	1.35

3D drawing

2.4G



2.45G



2.5G



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1: Product parameters

Product name: 2.4G ultrasonic antenna

Mechanical performance indicators			
Size:	105*13*8mm	Wire length:	280mm
Material:	ABS	Color:	Off white
Terminal:	IPEX first generation	Operating temperature:	-20℃±85℃

Electrical performance indicators			
Frequency range:	2400~2500MHZ	Polarization mode:	Vertical
Impedance:	50 Ω	Radiation direction:	Omnidirectional
Standing wave ratio:	≤1.5	Operating voltage:	5V
Efficiency:	3DBI	Bandwidth:	100MHZ

2:Product pictures

