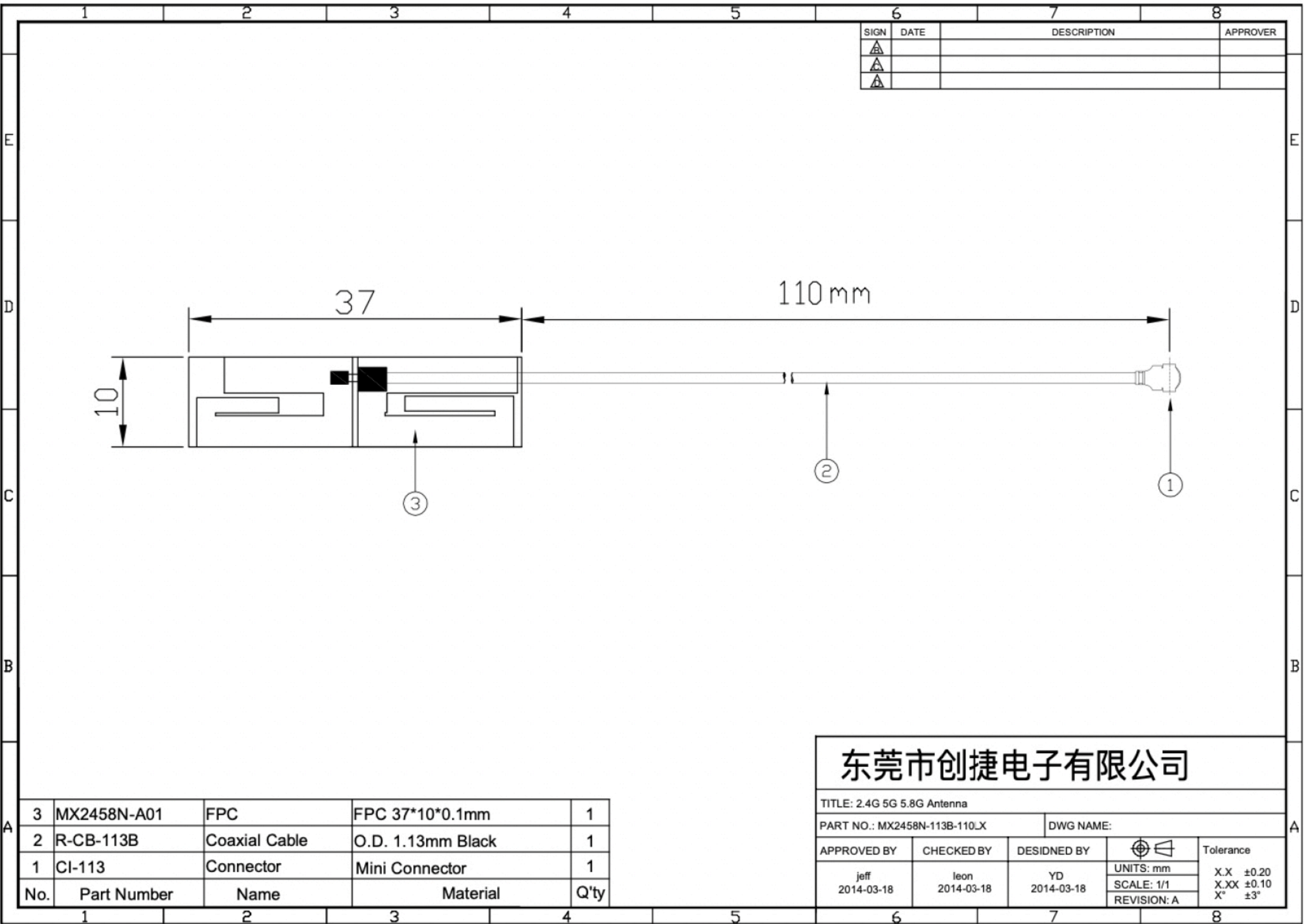


Specification

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1	Spec Cover	1	1
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SIGN	DATE	DESCRIPTION	APPROVER
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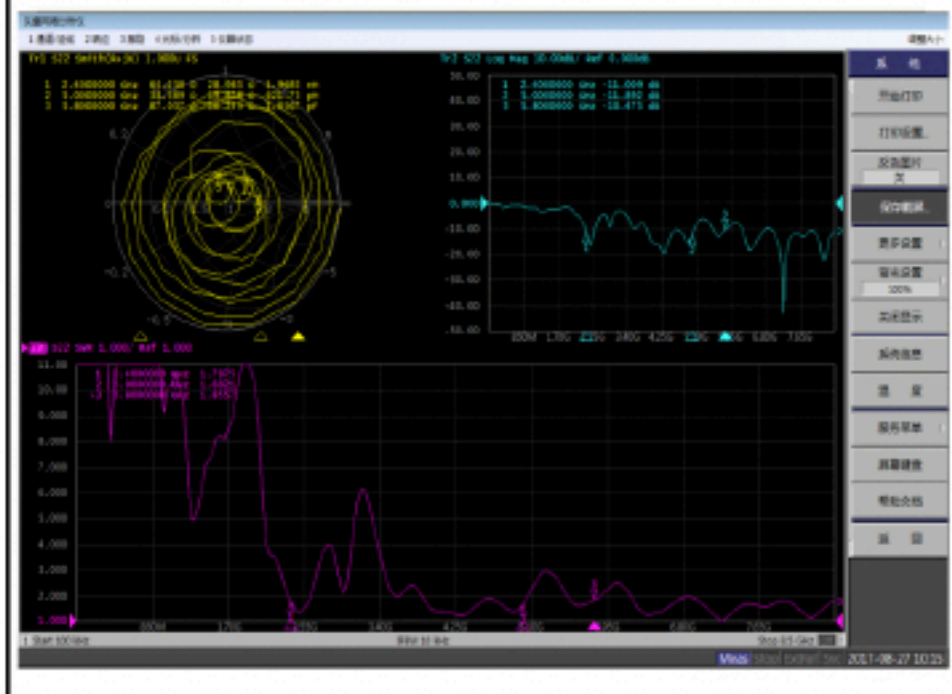
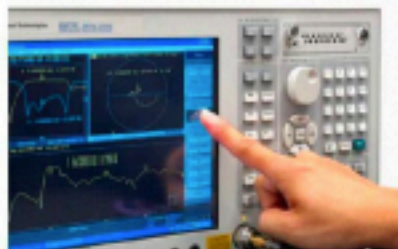
3	MX2458N-A01	FPC	FPC 37*10*0.1mm	1
2	R-CB-113B	Coaxial Cable	O.D. 1.13mm Black	1
1	CI-113	Connector	Mini Connector	1
No.	Part Number	Name	Material	Q'ty

东莞市创捷电子有限公司				
TITLE: 2.4G 5G 5.8G Antenna				
PART NO.: MX2458N-113B-110LX			DWG NAME:	
APPROVED BY	CHECKED BY	DESIGNED BY		Tolerance
jeff 2014-03-18	leon 2014-03-18	YD 2014-03-18	UNITS: mm	X.X ±0.20
			SCALE: 1/1	X.XX ±0.10
			REVISION: A	X° ±3°

Test Reports

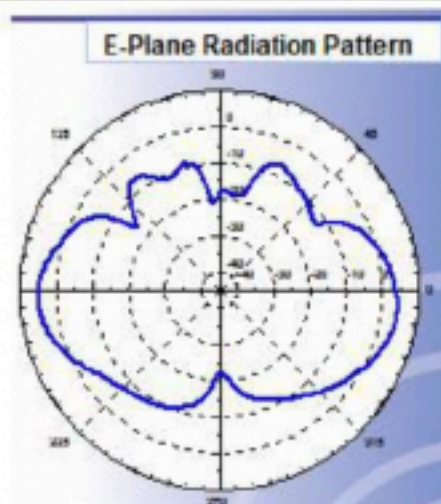
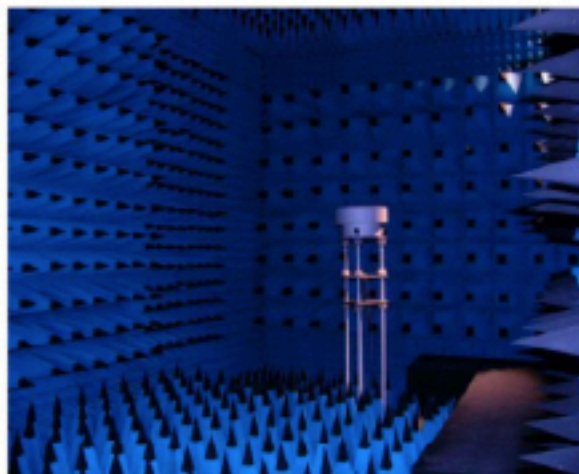
Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz 4900 ~ 5900 MHz
S.W.R.	≤ 2.0 @ 2400 ~ 2500 MHz ≤ 2.0 @ 4900 ~ 5900 MHz
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Cable Loss	2 dB / m Max
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	IPEX
Physical Properties	
Antenna Material	FPC
Cable Type	O.D. 1.13mm // 50 mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C

S Parameter Test

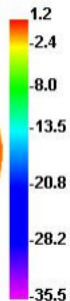
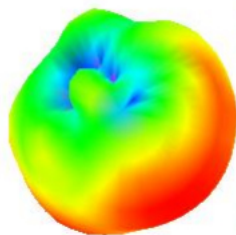
Agilent E5071C

Gain Test

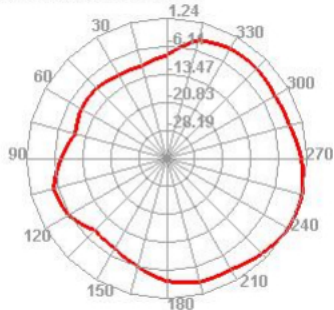
*Antenna
Radiation
Pattern
VS
Gain*



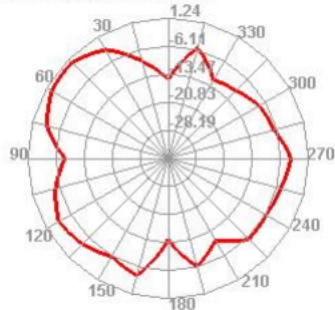
2450.000MHz



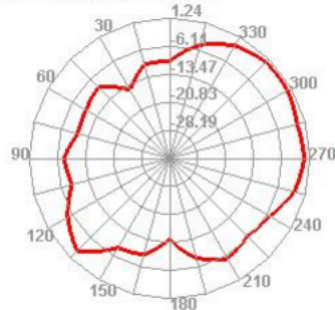
2450.000MHz H



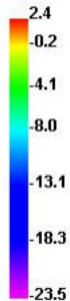
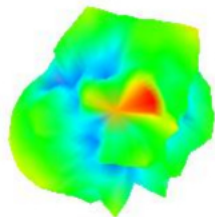
2450.000MHz E1



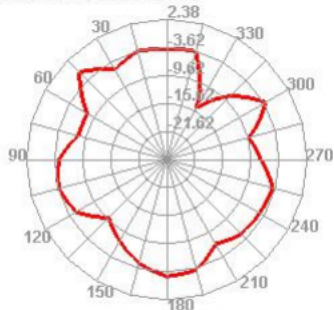
2450.000MHz E2



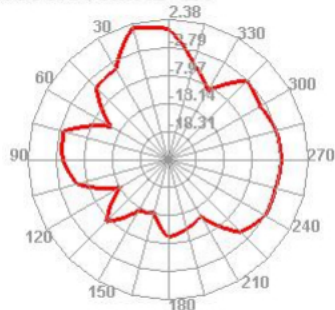
5300.000MHz



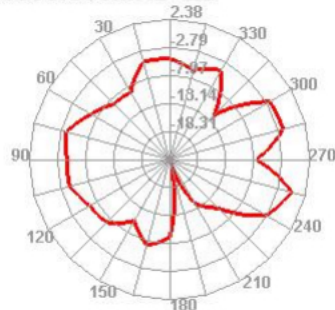
5300.000MHz H



5300.000MHz E1



5300.000MHz E2



Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2400.0	2400.00	0.71	3.54	52.1%	-2.83	0.71	60	120	-14.76	120	210	-3.33	15.47	4.04	-11.43
2	2410.0	2410.00	1.02	3.48	56.7%	-2.47	1.02	60	120	-14.13	120	210	-2.83	15.15	3.85	-11.30
3	2420.0	2420.00	1.29	3.48	60.3%	-2.19	1.29	60	120	-13.09	120	210	-2.39	14.38	3.68	-10.70
4	2430.0	2430.00	1.46	3.56	61.6%	-2.10	1.46	150	270	-12.15	120	210	-2.19	13.61	3.65	-9.96
5	2440.0	2440.00	1.49	3.63	61.2%	-2.14	1.49	150	270	-11.73	90	240	-2.23	13.22	3.73	-9.50
6	2450.0	2450.00	1.46	3.49	62.7%	-2.02	1.46	150	270	-11.90	90	240	-2.30	13.36	3.76	-9.59
7	2460.0	2460.00	1.09	3.25	60.9%	-2.16	1.09	150	270	-12.41	90	240	-2.61	13.50	3.70	-9.80
8	2470.0	2470.00	0.94	3.10	60.8%	-2.16	0.94	150	270	-12.83	90	240	-2.71	13.77	3.65	-10.12
9	2480.0	2480.00	0.84	3.11	59.3%	-2.27	0.84	150	270	-13.27	90	240	-2.86	14.10	3.70	-10.41
10	2490.0	2490.00	0.98	3.23	59.6%	-2.25	0.98	150	270	-13.35	90	240	-2.77	14.33	3.75	-10.58
11	2500.0	2500.00	1.09	3.52	57.1%	-2.44	1.09	150	270	-13.25	90	240	-2.75	14.34	3.84	-10.50
12	5000.0	5000.00	0.15	5.04	32.4%	-4.89	0.15	60	300	-16.37	90	240	-4.37	16.53	4.53	-12.00
13	5100.0	5100.00	1.81	5.15	46.4%	-3.33	1.81	60	300	-12.97	90	240	-2.79	14.79	4.60	-10.19
14	5200.0	5200.00	1.81	5.26	45.2%	-3.45	1.81	60	300	-13.18	120	240	-2.90	14.99	4.71	-10.28
15	5300.0	5300.00	1.69	4.91	47.7%	-3.21	1.69	60	300	-12.51	120	240	-2.75	14.20	4.44	-9.76
16	5400.0	5400.00	2.62	5.15	55.8%	-2.53	2.62	30	300	-10.34	60	210	-1.97	12.95	4.59	-8.36
17	5500.0	5500.00	2.15	5.26	48.8%	-3.11	2.15	30	300	-10.64	60	210	-2.44	12.79	4.60	-8.19
18	5600.0	5600.00	1.86	5.18	46.6%	-3.32	1.86	30	300	-10.92	30	210	-2.59	12.77	4.45	-8.33
19	5700.0	5700.00	1.34	5.13	52.7%	-2.79	2.34	30	300	-12.91	30	210	-2.23	15.25	4.57	-10.69
20	5800.0	5800.00	1.96	5.15	48.0%	-3.19	1.96	30	300	-10.51	120	240	-2.75	12.46	4.71	-7.76
21	5900.0	5900.00	1.86	4.64	52.8%	-2.78	1.86	30	300	-10.28	120	240	-2.22	12.14	4.09	-8.05
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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