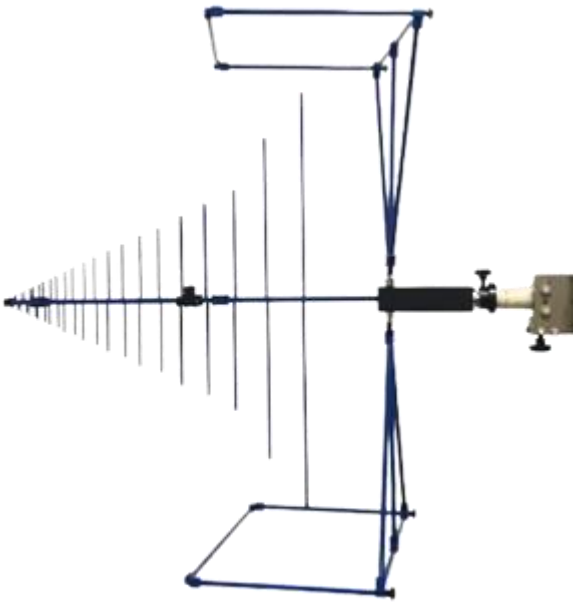
FT-RF
Fei Teng Wireless

Model LO-30M06GA1-NF

30MHz - 7GHz Broadband Log Periodic Antenna



Applications:	Features:
• 30 MHz to 6GHz (can use up to 7GHz) • 6061 Aluminum metal alloy • Stainless Steel N-female • Design and made in Taiwan	• DC Short lightning protection • Low VSWR • Uniform Gain

Model:	LO-30M06GA1-NF	-3db Beamwidth:	Horz.65 Deg Vert.120 Deg
LxWxH:	1255x1147x609mm	N.W.:	5.2KG
Connector:	N-Female	Frequency:	30MHz-7GHz
Styling:	Log	Polarization:	Vertical or Horizontal
Gain:	3dbi-11dBi	Max input power:	50W

Fei Teng Wireless Technology CO.LTD
No. 369, Sec. Litoushan, Wenshan Rd., Xinpu Township, Hsinchu County 305, Taiwan (R.O.C)
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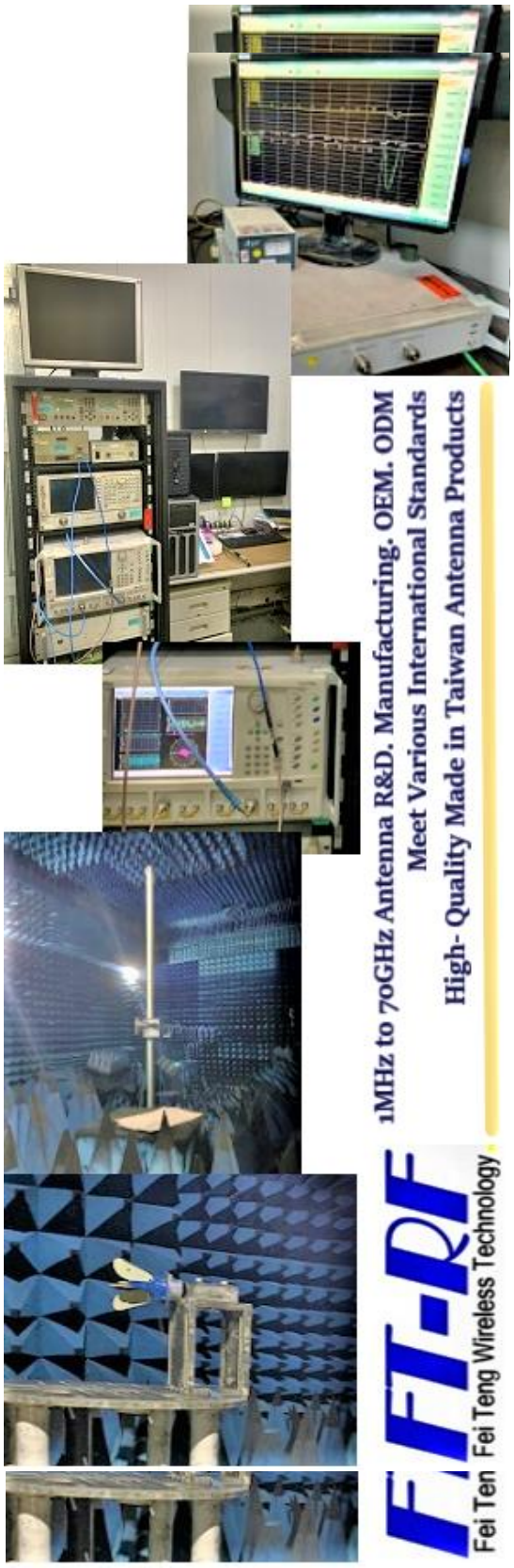
Model LO-30M06GA1-NF

Electrical Specification

Frequency Range	30MHz - 6000MHz
V.S.W. R	<2.5 : 0
Antenna Type	Log
Radiation	Directional
Gain	5 - 11 dBi
Polarization	Vertical or Horizontal
Max Input Power	50W
Vertical Beamwidth	76 deg
Horizontal Beamwidth	52 deg
Impedance	50 Ohm
Connector	N-Female

Mechanical Specification

Length	1255 mm
WxH	1147x609mm
Antenna Weight (N.W)	7kg
Application	Indoor/ Outdoor
Storage Temperature	-40 to +80
Operating Temperature	-40 to +60
Operating Humidity	10%~90% non-condensing
Storage Humidity	5%~90% non-condensing
Safety, Emission and other	RoHS, FCC, CE



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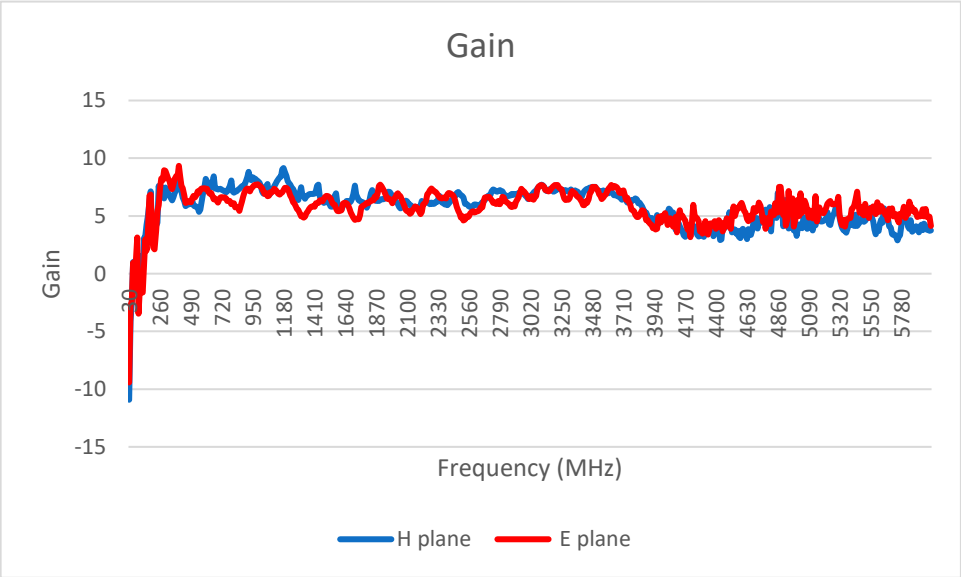
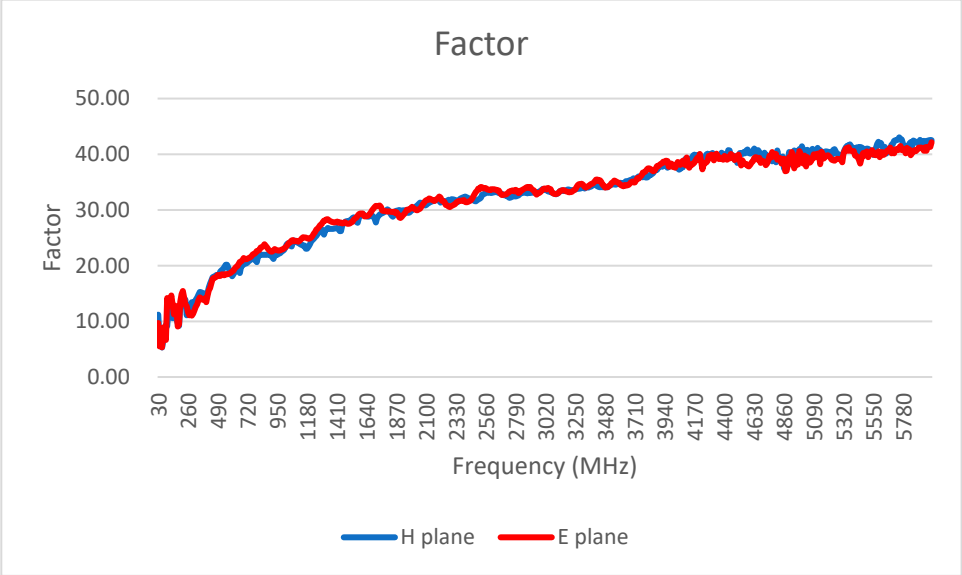
Antenna Gain and Factor





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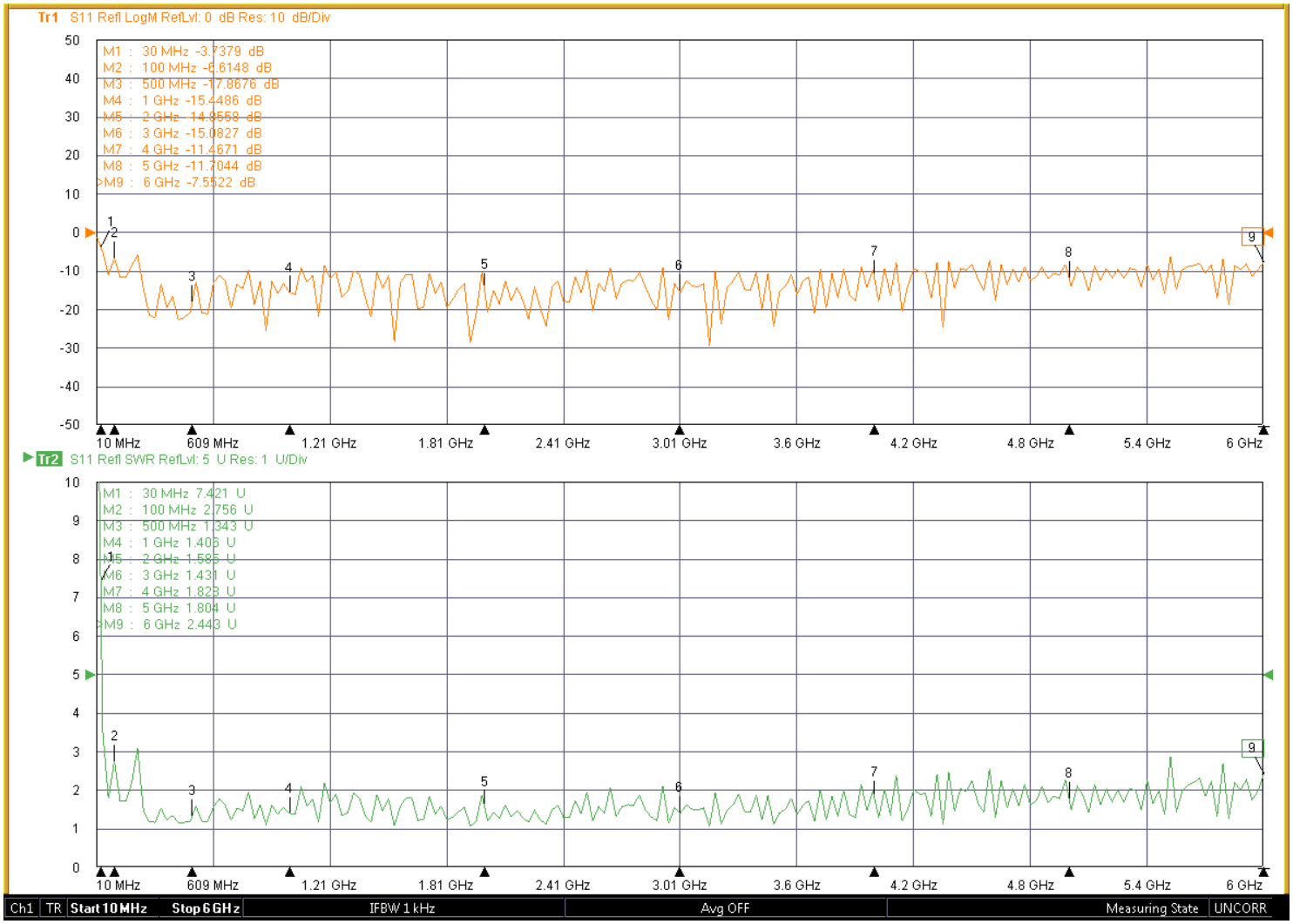
Model LO-30M06GA1-NF

Antenna VSWR and Return loss

Test Equipment	Anritsu MS4644A 10Mhz-40Ghz
Test Equipment Cable	Agilent 60cm SMA male to SMA male
RF connector Adapter	Agilent SMA-Female to N-Male DC~18GHz
Correction	85052D-DC-26.5Ghz
Test Model	LO-30M06GA1-NF
Test Port	S11

Return loss & V.S.W.R



Antenna Pattern

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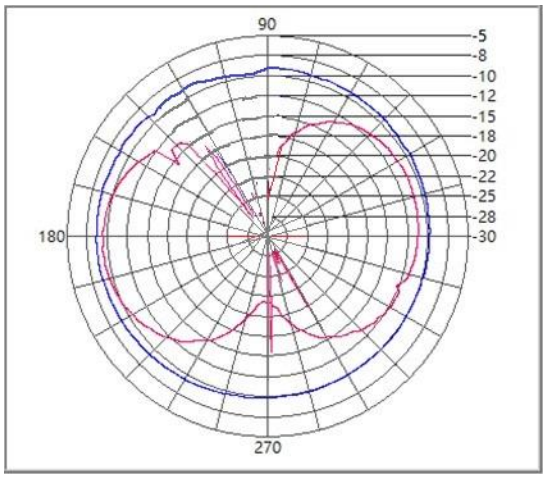
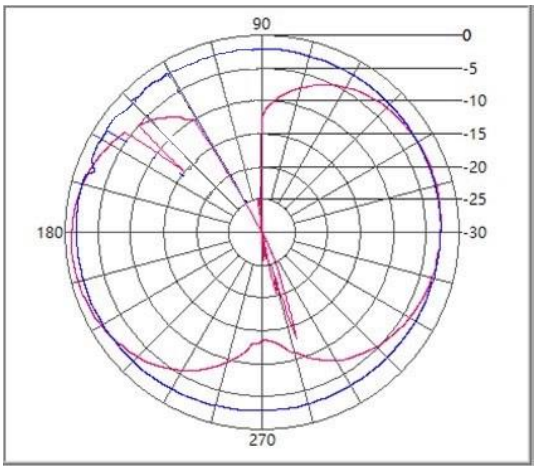
Model LO-30M06GA1-NF

E-Plane
H-Plane

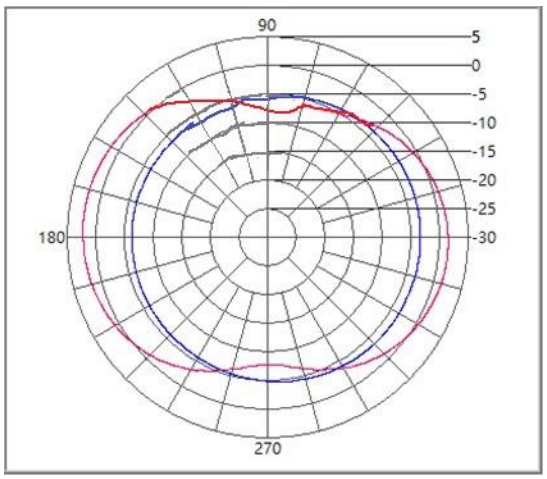
30MHz



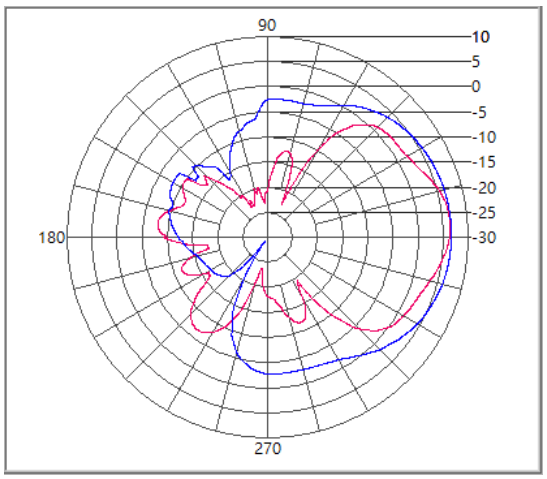
50MHz



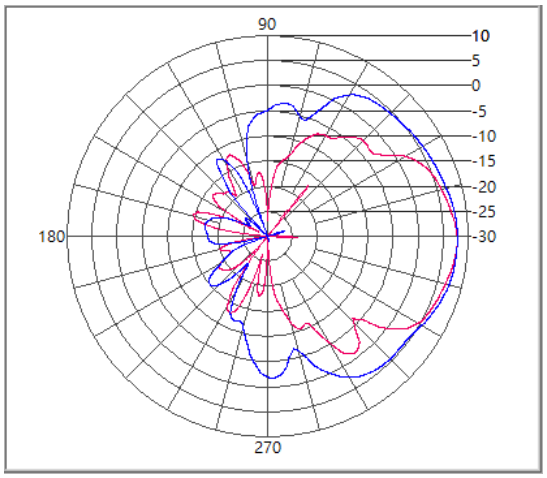
100MHz



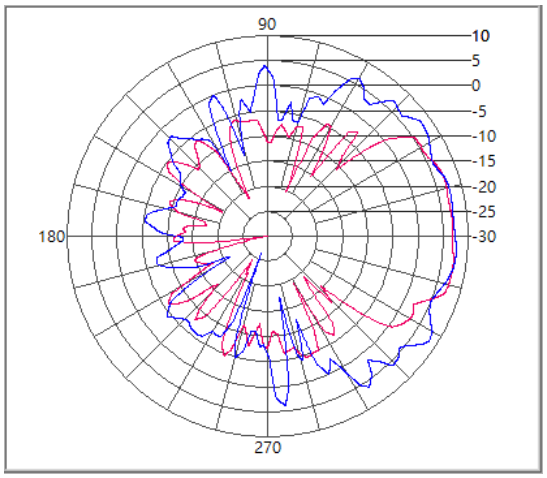
500MHz



1000MHz



2000MHz



3000MHz

4000MHz

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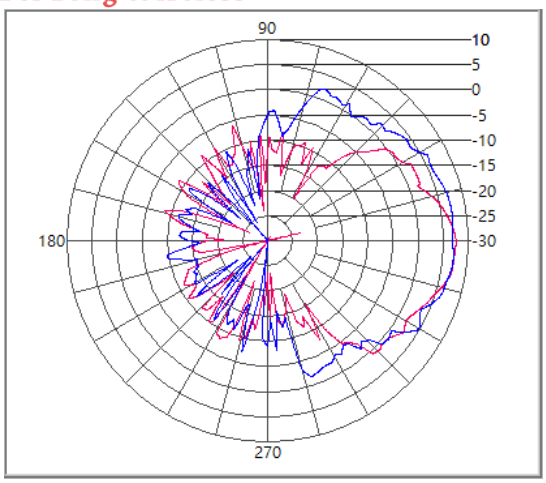
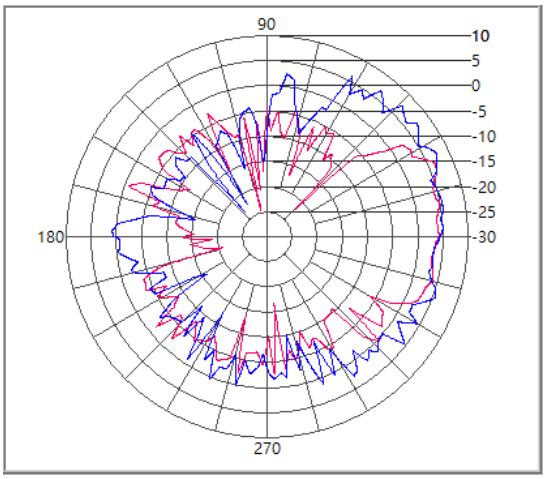
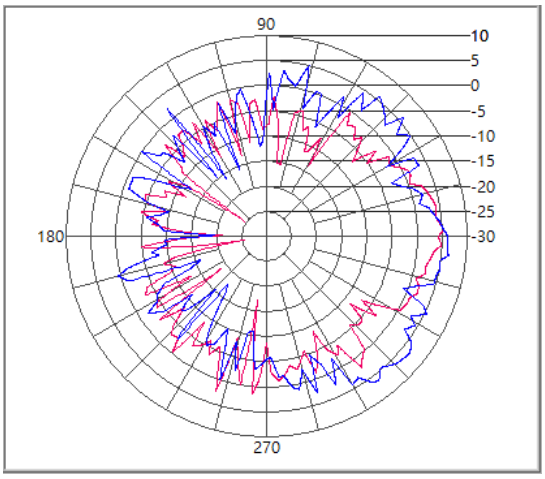
Model LO-30M06GA1-NF

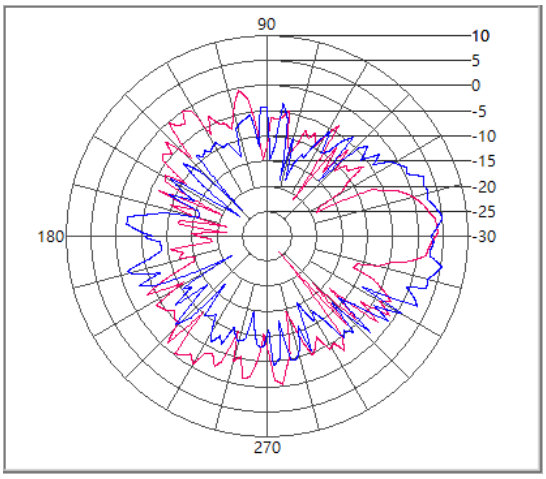


5000MHz



6000MHz





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Model LO-30M06GA1-NF

Antenna Gain and FBR Data

Frequency (MHz)	H-Plane Gain	E-Plane Gain	H-Plane Factor	E-Plane Factor	Frequency (MHz)	H-Plane Gain	E-Plane Gain	H-Plane Factor	E-Plane Factor	Frequency (MHz)	H-Plane Gain	E-Plane Gain	H-Plane Factor	E-Plane Factor
30	-7.39	-9.3	0.3	12.6	4000	4.74	5.03	38.0	37.7	5100	4.45	5.47	40.4	39.4
100	1.48	-3.21	2.37	6.16	4100	3.79	4.92	39.2	38.1	5200	4.57	5.24	40.5	39.8
200	3.89	3.22	12.85	13.52	4200	3.31	4.17	39.9	39.0	5300	6.15	6.03	39.1	39.2
300	7.45	8.91	12.82	11.36	4300	3.27	3.46	40.1	39.9	5400	4.24	4.82	41.1	40.6
400	8.09	9.34	14.67	13.42	4400	3.84	3.89	39.8	39.7	5500	4.49	5.04	41.0	40.5
500	6.31	6.55	18.39	18.15	4500	5.33	4.58	38.5	39.2	5600	3.93	6.19	41.8	39.5
600	8.21	7.35	18.08	18.94	4600	3.89	5.82	40.1	38.2	5700	4.01	5.4	41.8	40.4
700	7.32	6.42	20.31	21.21	4700	4.84	5.4	39.3	38.8	5800	4.83	5.8	41.2	40.2
800	7.14	6.1	21.65	22.69	4800	5.77	4.29	38.6	40.1	5900	3.98	4.92	42.2	41.2
900	8.05	7.3	21.76	22.51	4900	4.12	5.07	40.4	39.5	6000	3.76	4.14	42.5	42.1
1000	7.89	7.62	22.83	23.10	5000	3.28	5.43	41.4	39.3					
1100	7.32	7.14	24.23	24.41	5100	4.45	5.47	40.4	39.4					
1000	7.89	7.62	22.8	23.1	5110	4.68	4.91	40.2	40.0					
1100	7.32	7.14	24.2	24.4	5200	4.57	5.24	40.5	39.8					
1200	8.46	7.44	23.8	24.9	5300	6.15	6.03	39.1	39.2					
1300	7.06	5.21	25.9	27.8	5400	4.24	4.82	41.1	40.6					
1400	6.91	5.82	26.7	27.8	5500	4.49	5.04	41.0	40.5					
1500	6.26	6.74	28.0	27.5	5600	3.93	6.19	41.8	39.5					
1600	5.63	5.43	29.2	29.4	5700	4.01	5.4	41.8	40.4					
1700	6.87	4.85	28.5	30.5	5800	4.83	5.8	41.2	40.2					
1800	5.72	6.14	30.1	29.7	5900	3.98	4.92	42.2	41.2					
1900	6.4	7.72	29.9	28.6	6000	3.76	4.14	42.5	42.1					
2000	6.65	6.47	30.1	30.3	4700	4.84	5.4	39.3	38.8					
2100	6.27	5.42	30.9	31.7	4800	5.77	4.29	38.6	40.1					
2200	5.91	5.17	31.7	32.4	4900	4.12	5.07	40.4	39.5					
2300	6.04	7.14	31.9	30.8	5000	3.28	5.43	41.4	39.3					
2400	5.93	6.89	32.4	31.4	5100	4.45	5.47	40.4	39.4					
2500	6.81	4.85	31.9	33.8	5110	4.68	4.91	40.2	40.0					
2600	5.98	5.31	33.0	33.7	5200	4.57	5.24	40.5	39.8					
2700	6.72	6.62	32.6	32.7	5300	6.15	6.03	39.1	39.2					
2800	7.16	6.24	32.5	33.4	5400	4.24	4.82	41.1	40.6					
2900	6.92	5.84	33.1	34.1	5500	4.49	5.04	41.0	40.5					
3000	6.46	6.56	33.8	33.7	5600	3.93	6.19	41.8	39.5					
3100	7.72	7.68	32.8	32.9	5700	4.01	5.4	41.8	40.4					
3200	7.16	7.69	33.7	33.1	5800	4.83	5.8	41.2	40.2					
3300	7.18	6.4	33.9	34.7	5900	3.98	4.92	42.2	41.2					
3400	6.69	6.21	34.7	35.1	6000	3.76	4.14	42.5	42.1					
3500	7.52	7.51	34.1	34.1	4700	4.84	5.4	39.3	38.8					
3600	6.96	7.36	34.9	34.5	4800	5.77	4.29	38.6	40.1					
3700	6.41	7.16	35.7	34.9	4900	4.12	5.07	40.4	39.5					
3800	6.53	5.11	35.8	37.2	5000	3.28	5.43	41.4	39.3					

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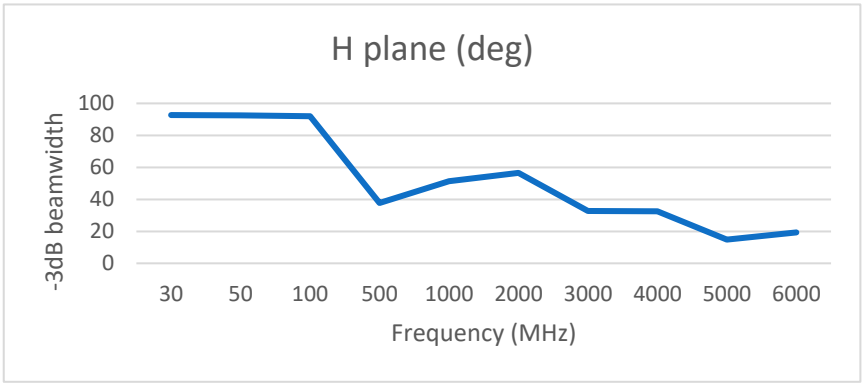
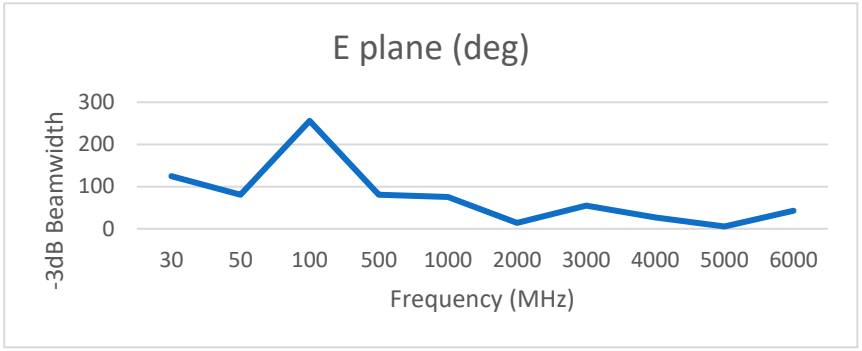
Model LO-30M06GA1-NF

Antenna -3dB Beamwidth Curve

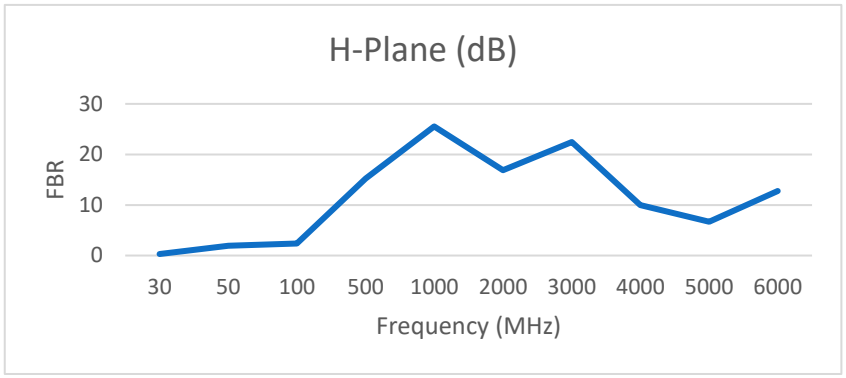
Frequency (MHz)	H plane (deg)	E plane (deg)
30	92.7	124.8
50	92.5	81.1
100	91.9	255.8
500	37.7	80.55
1000	51.35	75.5
2000	56.56	13.69
3000	32.63	54.99
4000	32.6	26.89
5000	14.83	5.53
6000	19.35	42.82
AVG	52.2	76.2

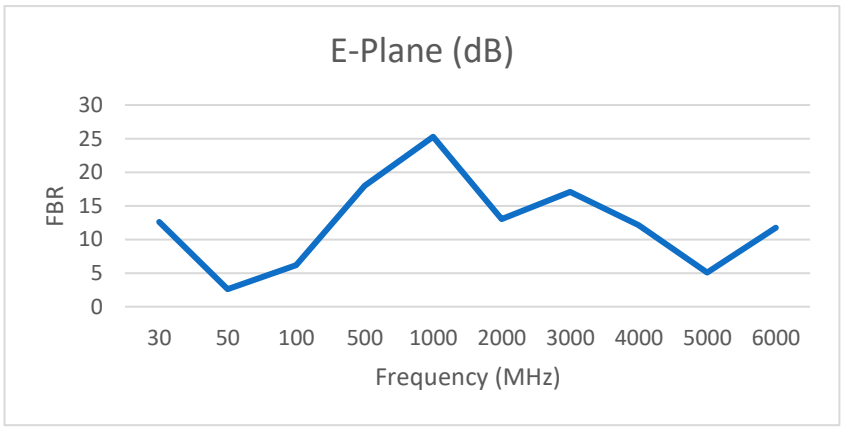




Antenna FBR curve

Frequency (MHz)	H-Plane (dB)	E-Plane (dB)
30	0.3	12.6
50	1.95	2.61
100	2.37	6.16
500	15.21	17.99
1000	25.54	25.28
2000	16.87	13.05
3000	22.47	17.07
4000	9.95	12.13
5000	6.71	5.09
6000	12.79	11.75
AVG	**11.37**	**12.3**





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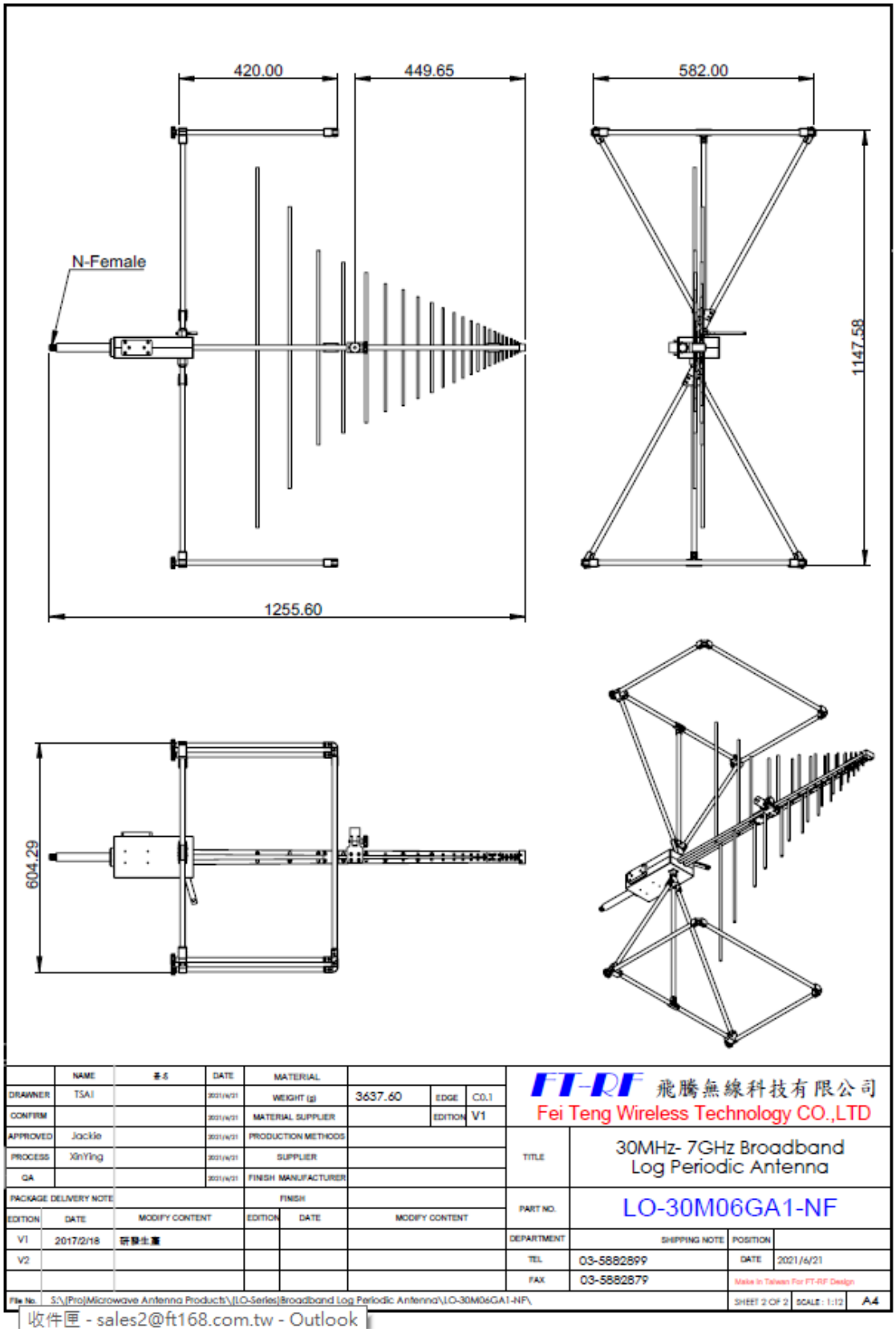
Antenna Dimension



	NAME		DATE	MATERIAL				FT-RF 飛騰無線科技有限公司 Fei Teng Wireless Technology CO.,LTD		
DRAWNER	TSAI			WEIGHT (g)	3637.60	EDGE	C0.1			
CONFIRM				MATERIAL SUPPLIER		EDITION	V1			
APPROVED	Jackie			PRODUCTION METHODS				TITLE	30MHz- 7GHz Broadband Log Periodic Antenna	
PROCESS	XinYing			SUPPLIER						
QA				FINISH MANUFACTURER						
PACKAGE DELIVERY NOTE				FINISH				PART NO.	LO-30M06GA1-NF	
EDITION	DATE	MODIFY CONTENT		EDITION	DATE	MODIFY CONTENT				
V1	2017/2/18	研發生產						DEPARTMENT	SHIPPING NOTE	POSITION
V2								TEL	03-5882899	DATE 2021/6/21
								FAX	03-5882879	Make In Taiwan For FT-RF Design
File No.	S:\[Pro]Microwave Antenna Products\[LO-Series]Broadband Log Periodic Antenna\LO-30M06GA1-NF\								SHEET 2 OF 2	SCALE : 1:12 A4

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FT-RF
Fei Teng Wireless

Model LO-30M06GA1-NF

Packing List & Label List

1 Set Packing	135x105x20cm
Antenna Accessories	
ITEM NO.	LO-30M06GA1-NF
Q'TY	PCS
G. W.	KG
N. W.	KG
CARTON	

1 set carton Label		Antenna Label	
Size	50 x 80 mm(white)	Size	30 x 50 mm (blue)

Customer: Manufacture Data: yy/mm/dd

Customer Mode:

Order Number:

Weight: kg

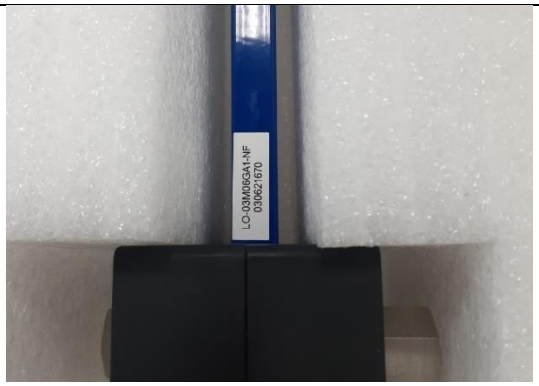
Carton: Box

Amount: Pcs

LO-30M06GA1-NF
30MHz- 7GHz Broadband Log Periodic Antenna

Paste Position

Paste Position



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RoHs and WEEE Status (RoHs and WEEE Compliance)

Certificate of Compliance

Date:

To Whom It May Concern

FT-RF hereby certifies that product:

Model	Product
LO-30M06GA1-NF	30MHz - 7GHz Broadband Log Periodic Antenna

is in conformance with the requirements of the European RoHS Directive 2011/65/EU and the European WEEE Directive 2012/19/EU, all materials referenced therein are in concentrations below the maximum allowable levels specified. Products manufactured by FT-RF bear the CE marking and have FCC certificate. FT-RF has been assessed and found to be in accordance with the requirements of ISO 14001:2015 and ISO 9001:2015 standards, scope of Design and Manufacture of Antenna.

Our statements in this letter regarding RoHS and WEEE compliance do not extend to, or apply to any product subjected to unintended contamination, misuse, neglect, accident, improper installation, or to use in violation of instructions furnished by FT-RF.

Sincerely,

FT-RF (Fei Teng Wireless Technology CO., LTD)

The information contained in this letter is being provided for informational purposes only and to clarify certain information concerning FT-RF products. Nothing provided in this letter is:

(1) a representation, warranty, or agreement to indemnification by FT-RF.

(2) a statement which may form the basis of reliance by FT-RF,

(3) a modification of any of the terms and conditions of sale agreed to in writing between FT-RF and its customers with respect to any FT-RF products, whether previously sold or to be sold in the future.