



深圳市雨盛通讯电子有限公司

Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107

Floor 1-3, No. 102 Ouxi Road
Oubai Village Shenzhen

FAX: +86 755 28694967

APPROVAL SHEET

版本: A1

CUSTOMER:

DESCRIPTION:

2.4-5.8G Antenna-L70mm(FPC)

PART NO.:

YS030-0063

CUS PART NO.:

D A T E:

2025-02-20

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT
JACK	LILY	MISS TIAN
田宏青 TianHongLiang	田青 TianQing	田海榕 TianHaiRong

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

Floor 1-3, No. 102, Ouxi Road, Oubai Village, Shenzhen



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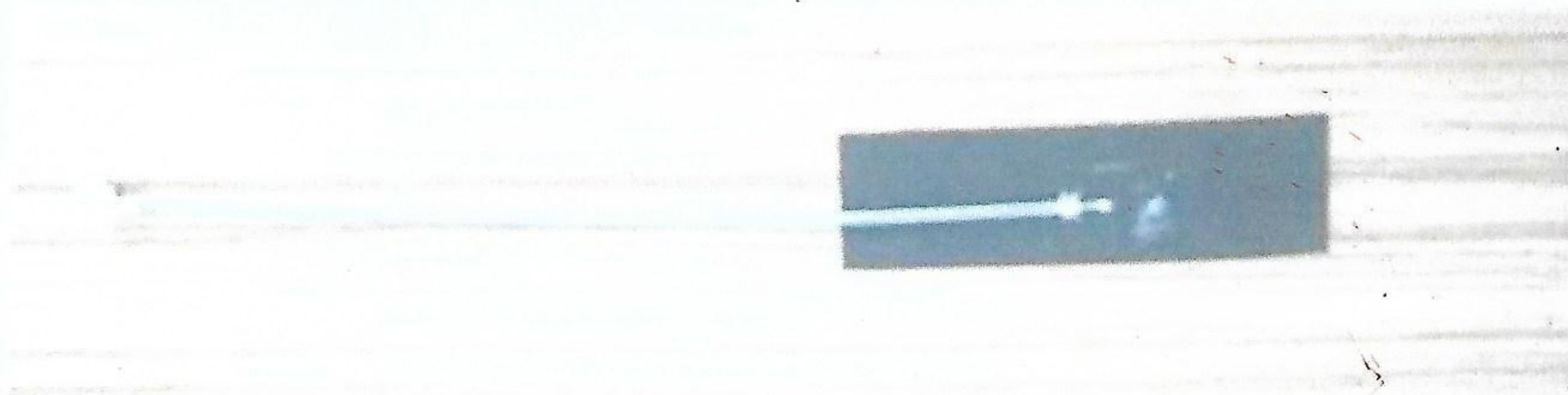
TEL: +86 0755-28640107

Floor 1-3 NO.102 Quxi Road
Oubai Village ShenZhen

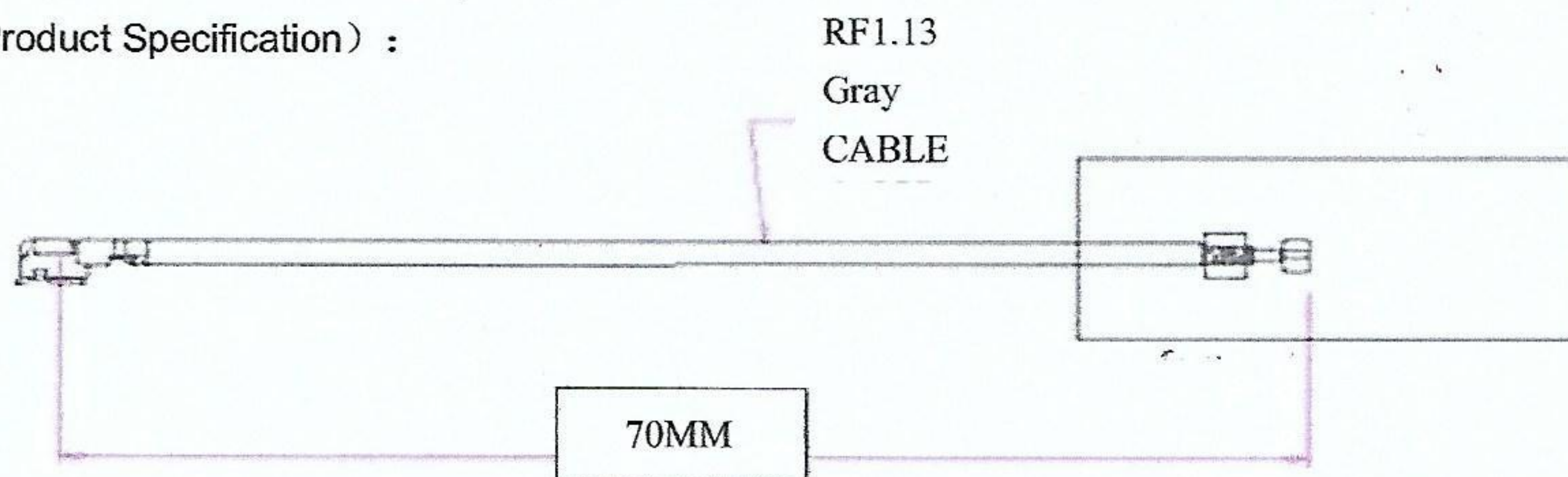
FAX: +86 755 28694967

Electrical Specifications	
Frequency Range	2400-5850MHZ
VSWR	≤ 2.0
MAX GAIN	2.51dBi
Input Impedance	50 Ω
Mechanical Specifications	
Antenna Color	BLACK
Input connector	IPEX1.13
Cable length	70mm
Working Temperature	-40°C ~ +85°C
Working Humidity	20~80%

(Product picture) :



(Product Specification) :



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(Environmental performance test) :

ITEM	TEST CONDITION	TEST RESULT
The storage environment	In the absence of the specified circumstances test temperature, humidity, air pressure is as follows: 1 temperature is -30 °C ~ +80 °C 2 relative humidity for 45%-85% The 3 pressure is 86kpa-106kpa	Electrical and mechanical properties of normal
Thermocycling ;	5 cycles between 70 °C and 40 °C, then under normal conditions 1-2H, appearance quality inspection.	Dimensions should meet the requirements and shall satisfy In the mechanical, electrical properties
Resistance to damp heat Test	Relative humidity is $95 \pm 3\%$, test temperature: 40 °C. Continue after 2H, Test within the product after removing the 5min determination of the electrical properties, in the normal sample Under 1-2H, the appearance of quality inspection	Dimensions should meet the requirements and shall satisfy In the mechanical, electrical properties
vibration test ;	Displacement amplitude of vibration frequency range: 10-55HZ, 0.35MM, the amplitude of acceleration: 50.0M/S, sweep cycle times: 30 times	Electrical and mechanical properties of normal
fall-down test ;	1M high altitude in accordance with the perpendicular axis free fall 3	Electrical and mechanical properties of normal



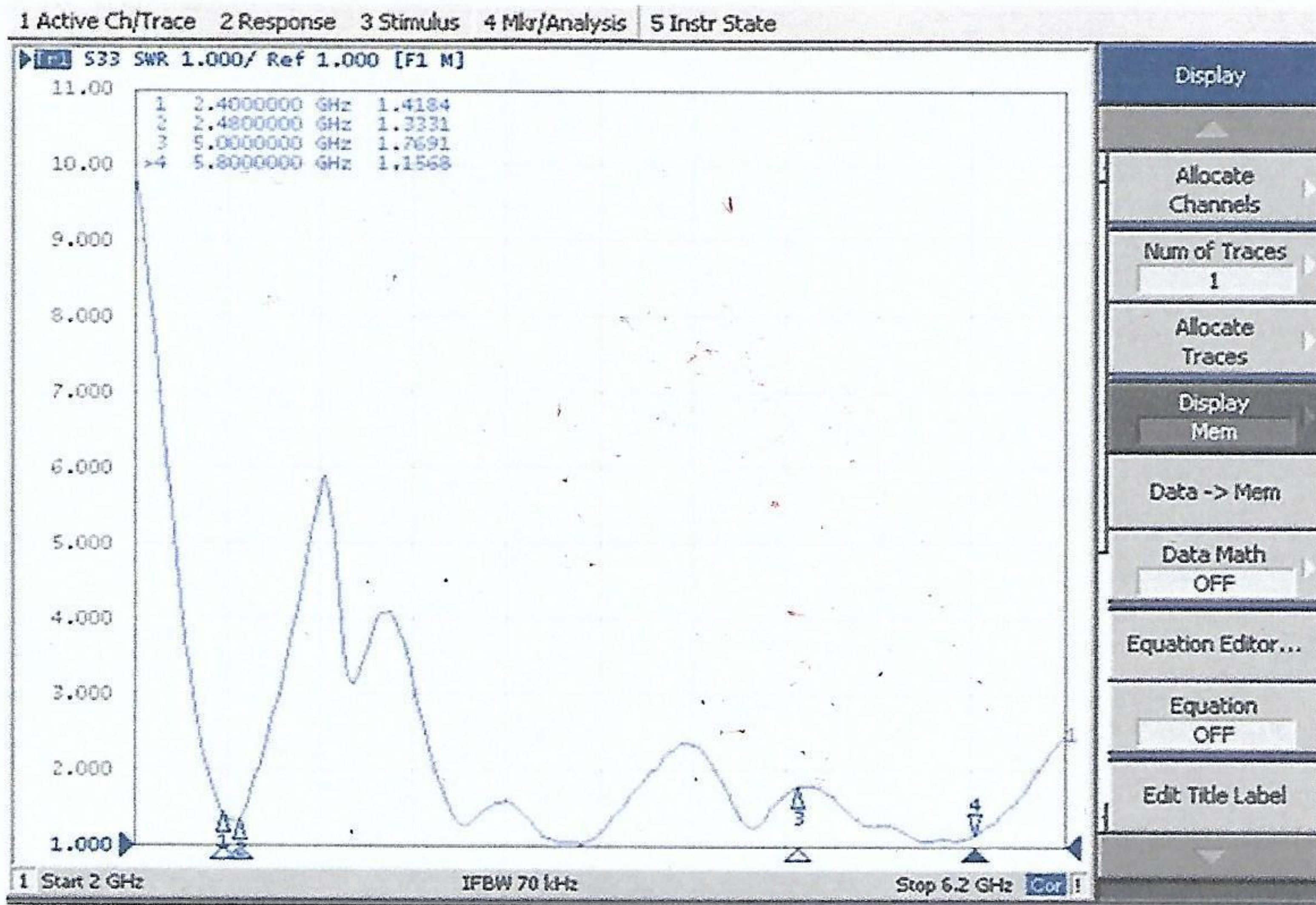
深圳市雨盛通讯电子有限公司

Shenzhen Yu Sheng Communications Electronics co., LTD

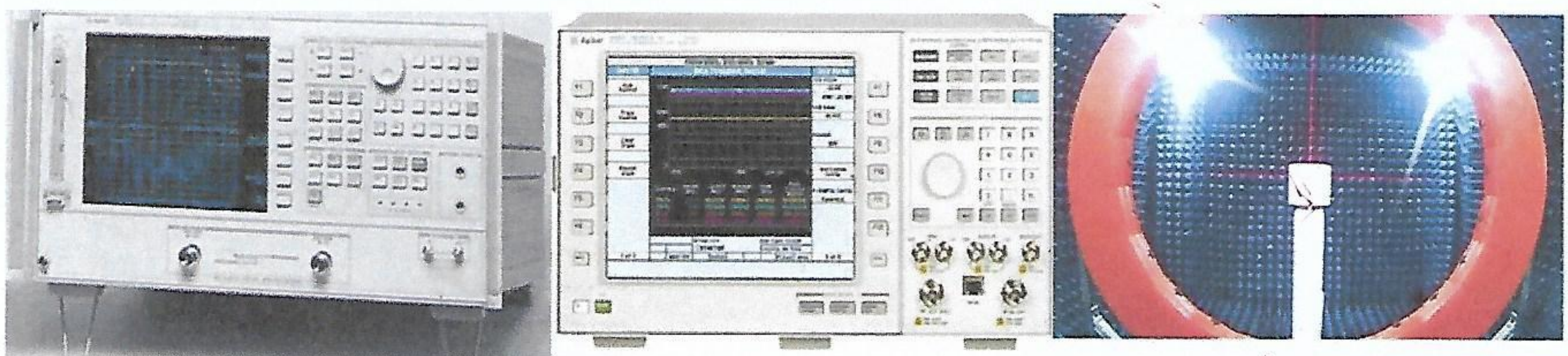
TEL: +86 0755-28640107 *Floor 1-3 No 102 Quxi Road
Dubai Village Shenzhen*

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(Agilent network analyzer test chart) :



(Gain-Tset):





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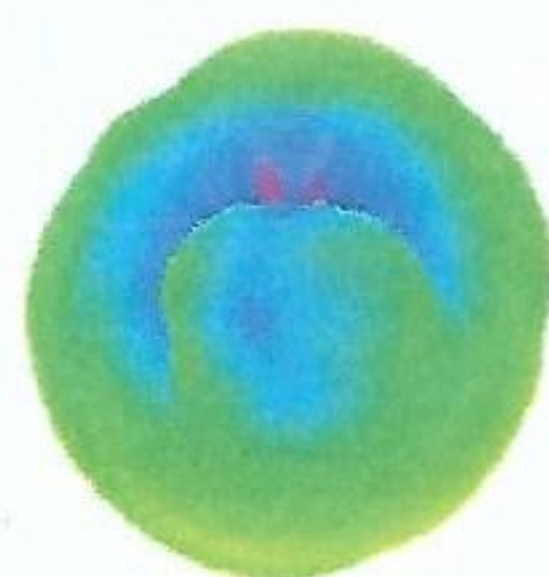
Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107

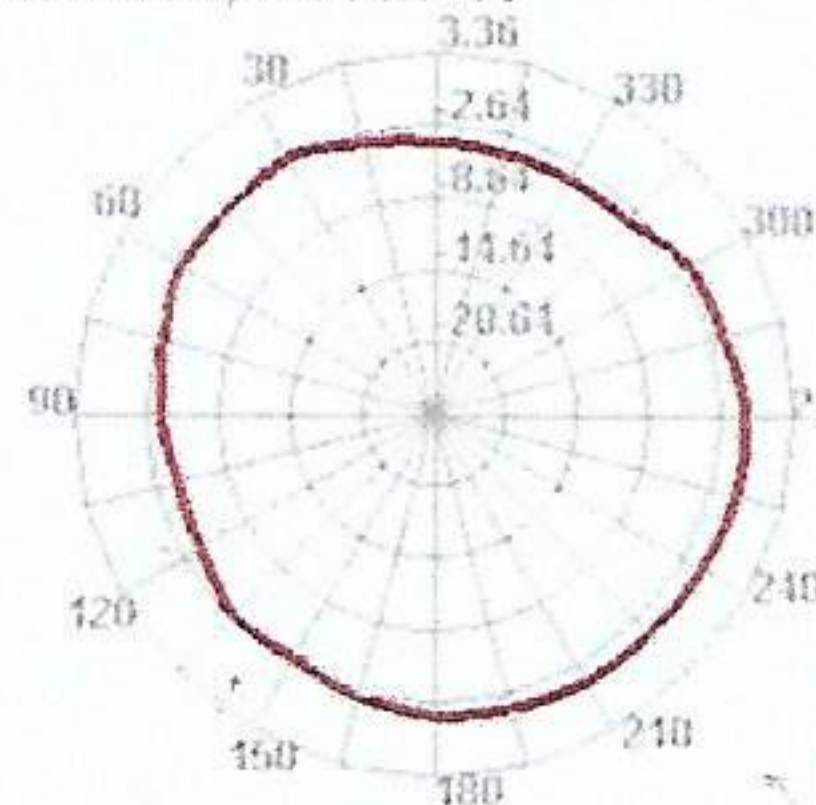
Floor 1-3, No. 102, Ouxi Road
Oubai Village Shenzhen

FAX: +86 755 28694967

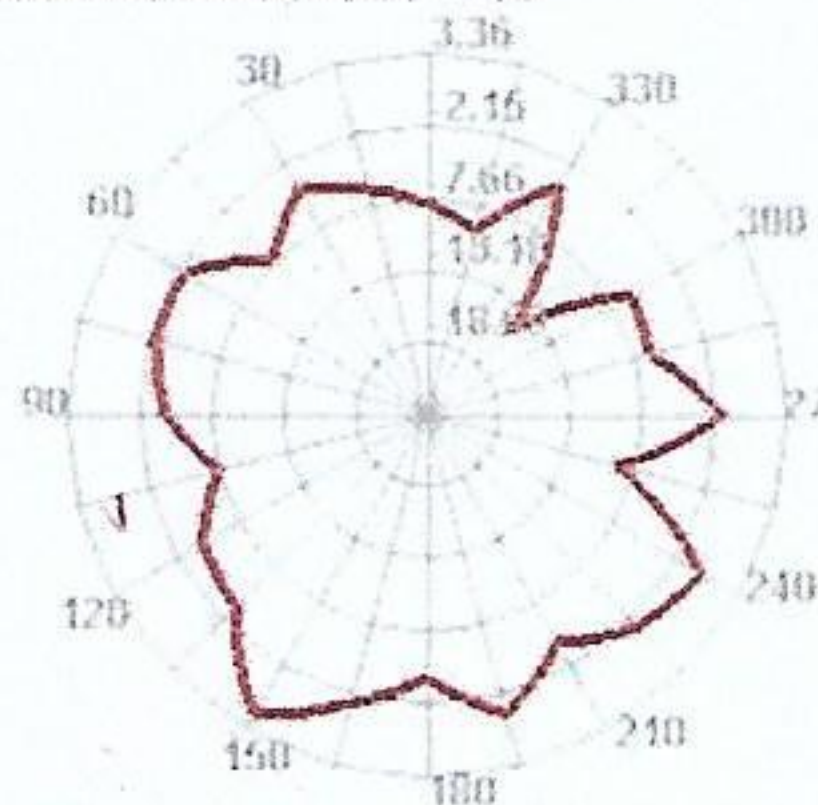
2400.000MHz



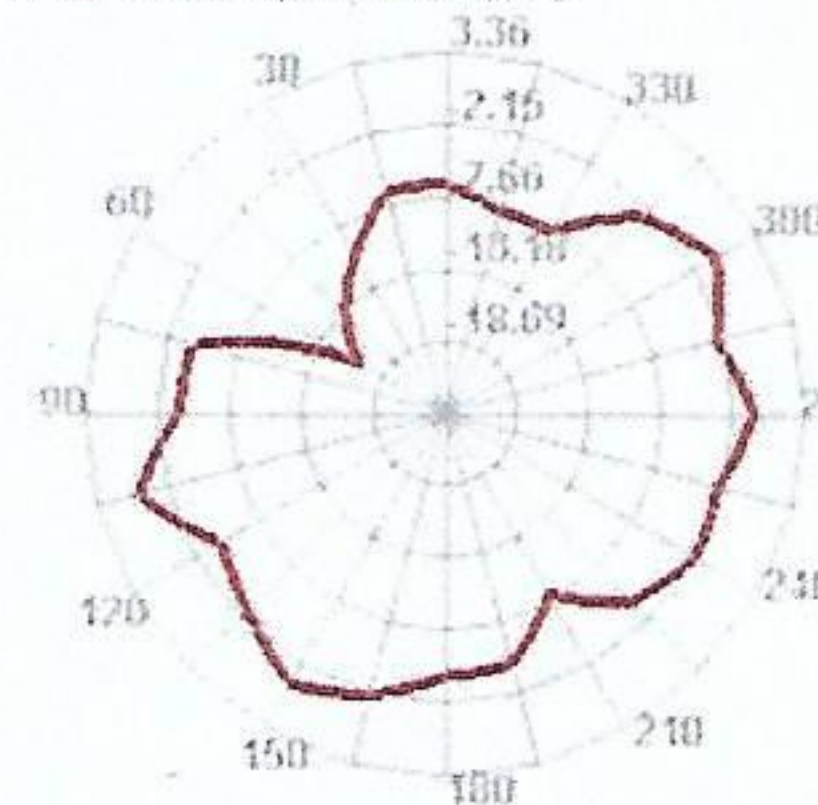
2400.000MHz H



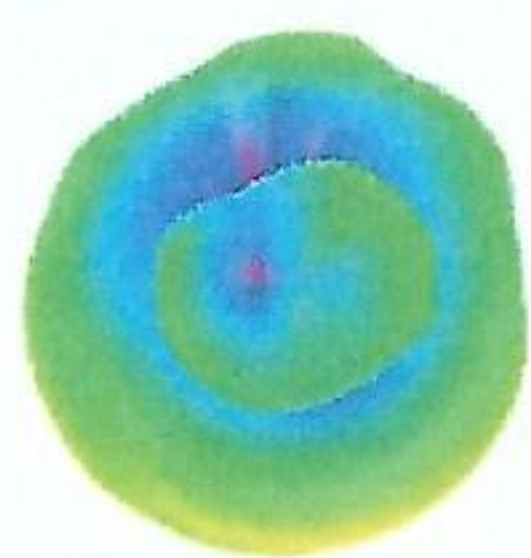
2400.000MHz E1



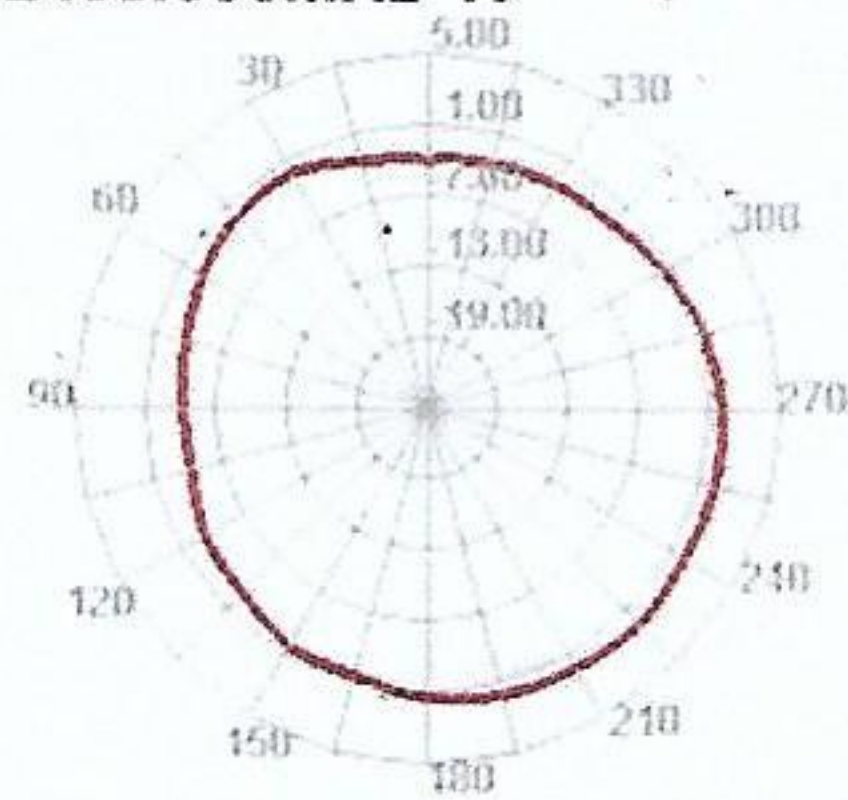
2400.000MHz E2



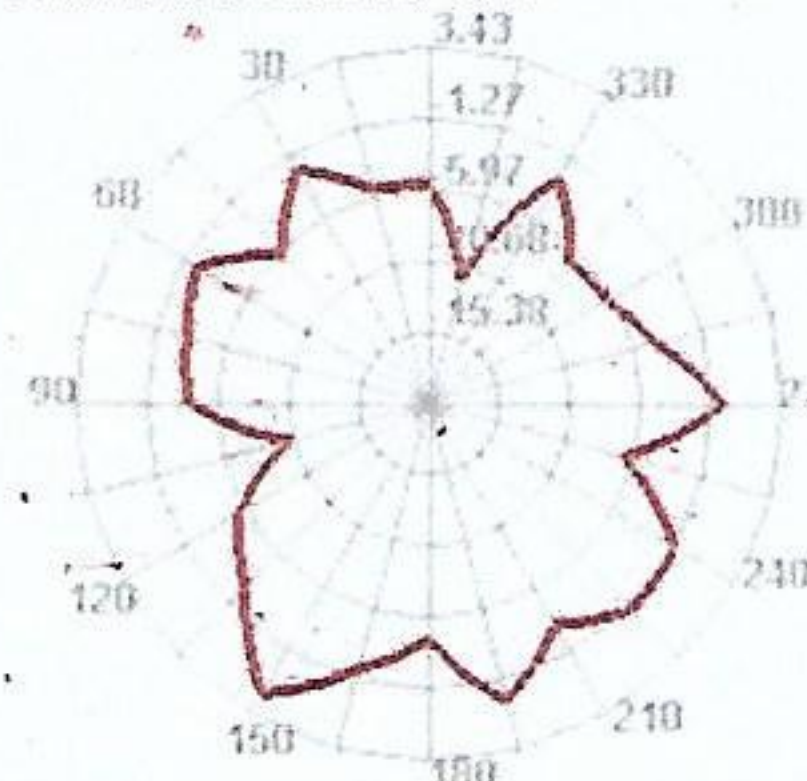
2450.000MHz



2450.000MHz H



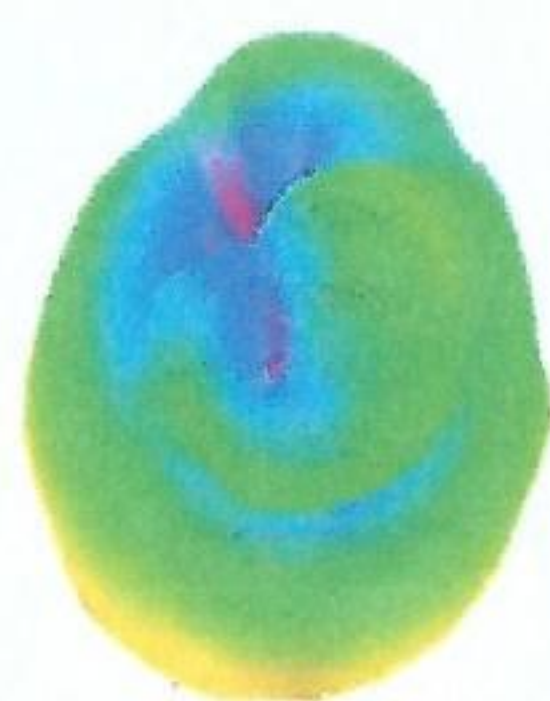
2450.000MHz E1



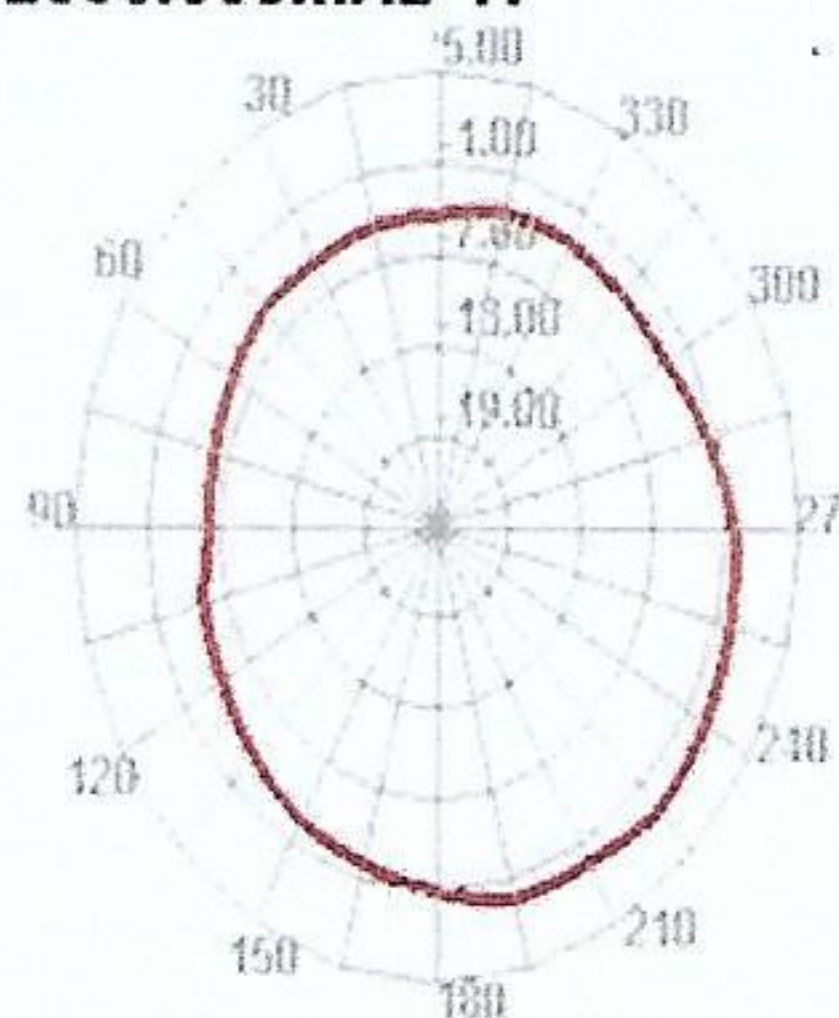
2450.000MHz E2



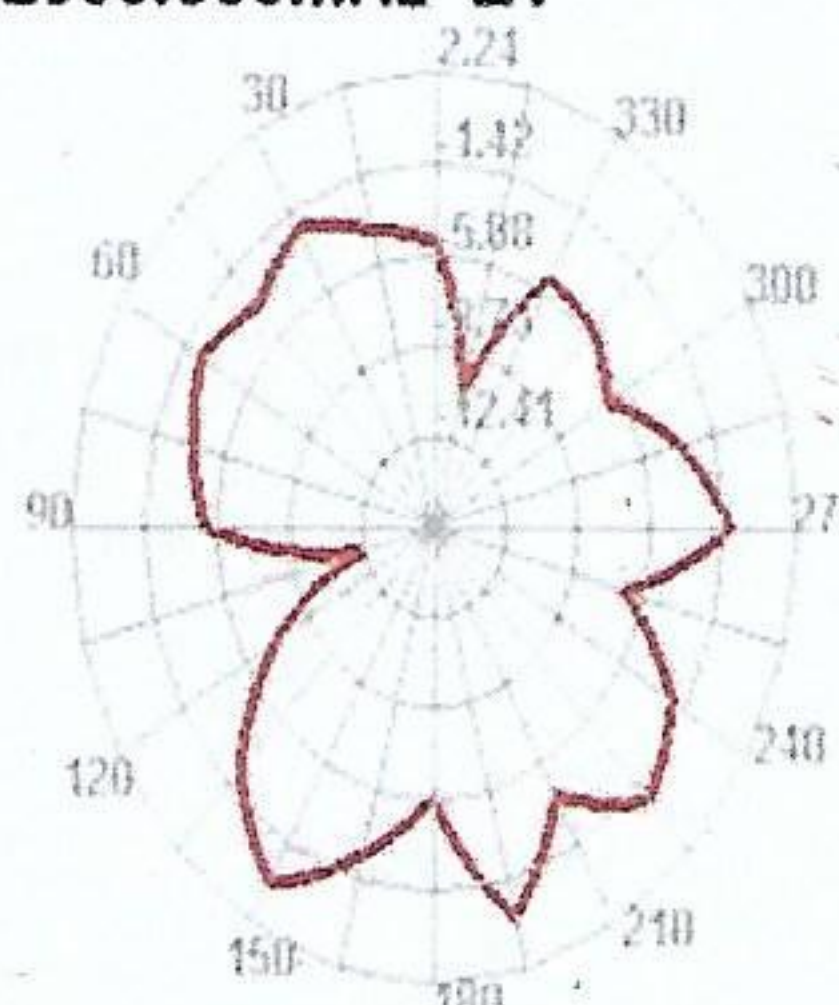
2500.000MHz



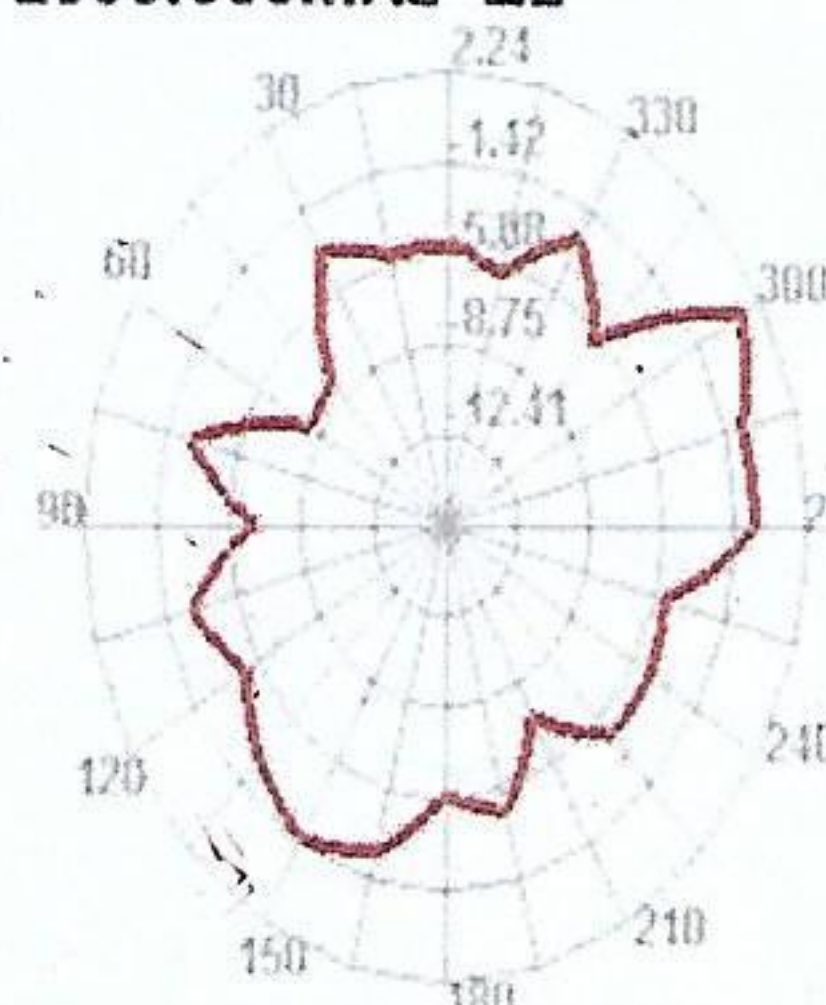
2500.000MHz H



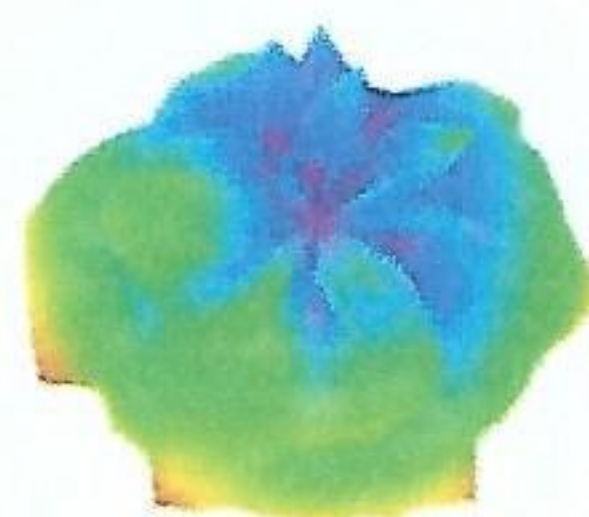
2500.000MHz E1



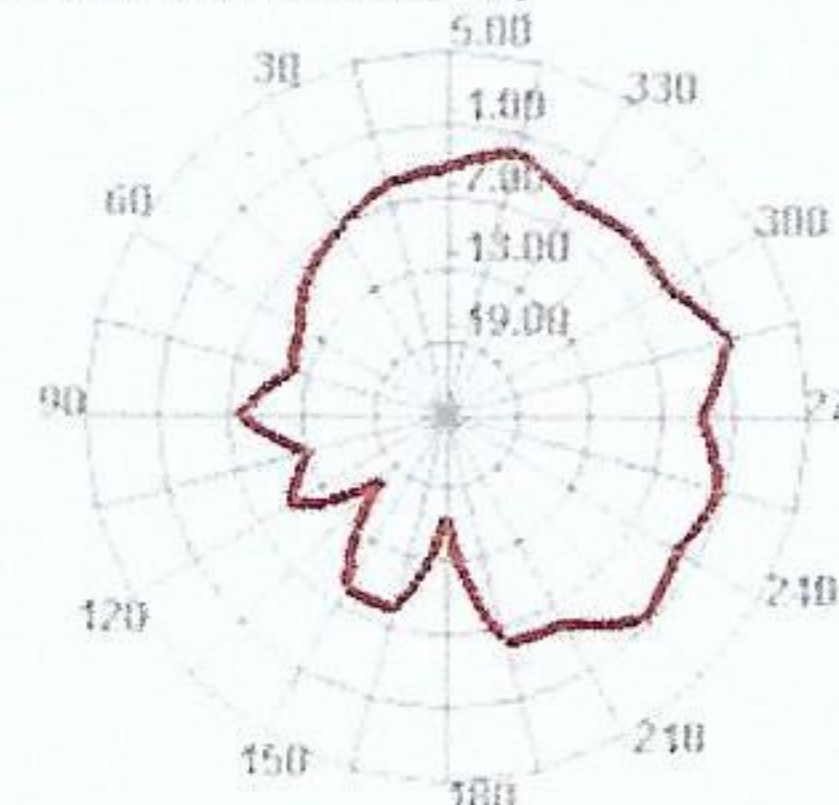
2500.000MHz E2



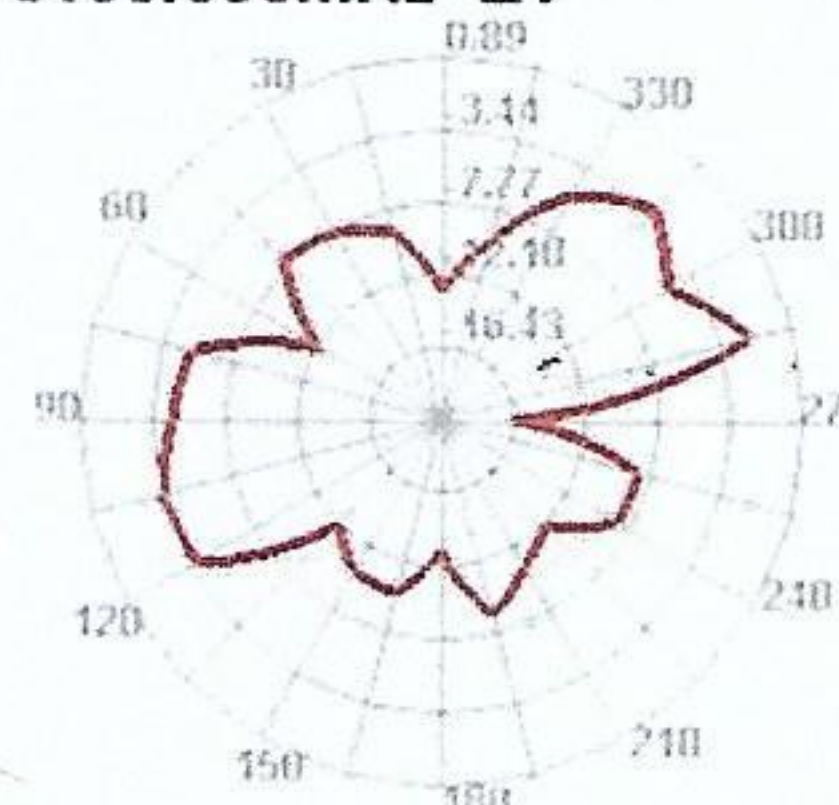
5150.000MHz



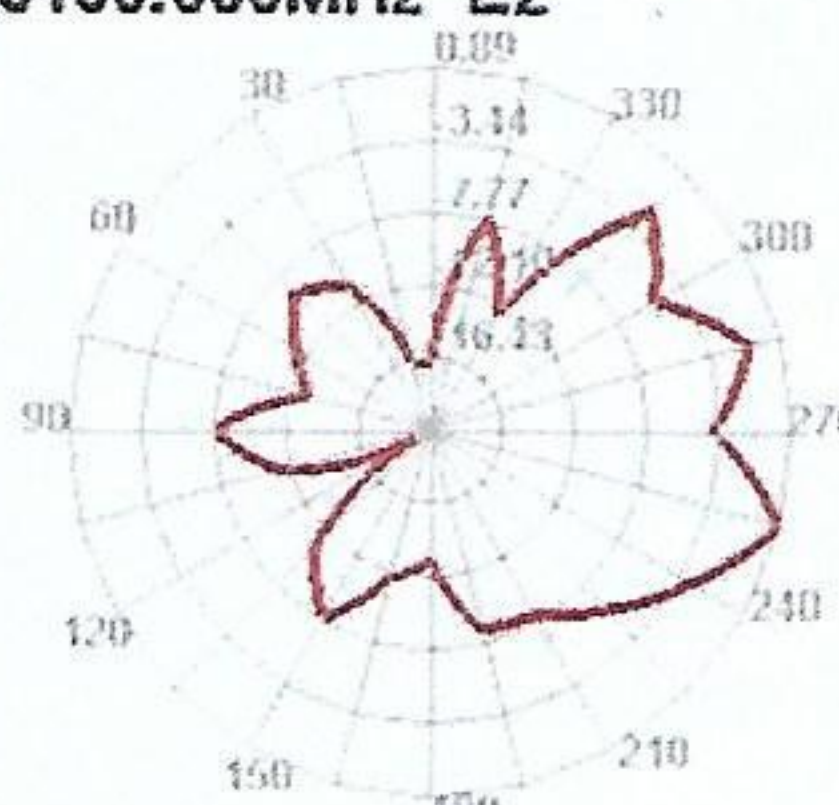
5150.000MHz H



5150.000MHz E1



5150.000MHz E2



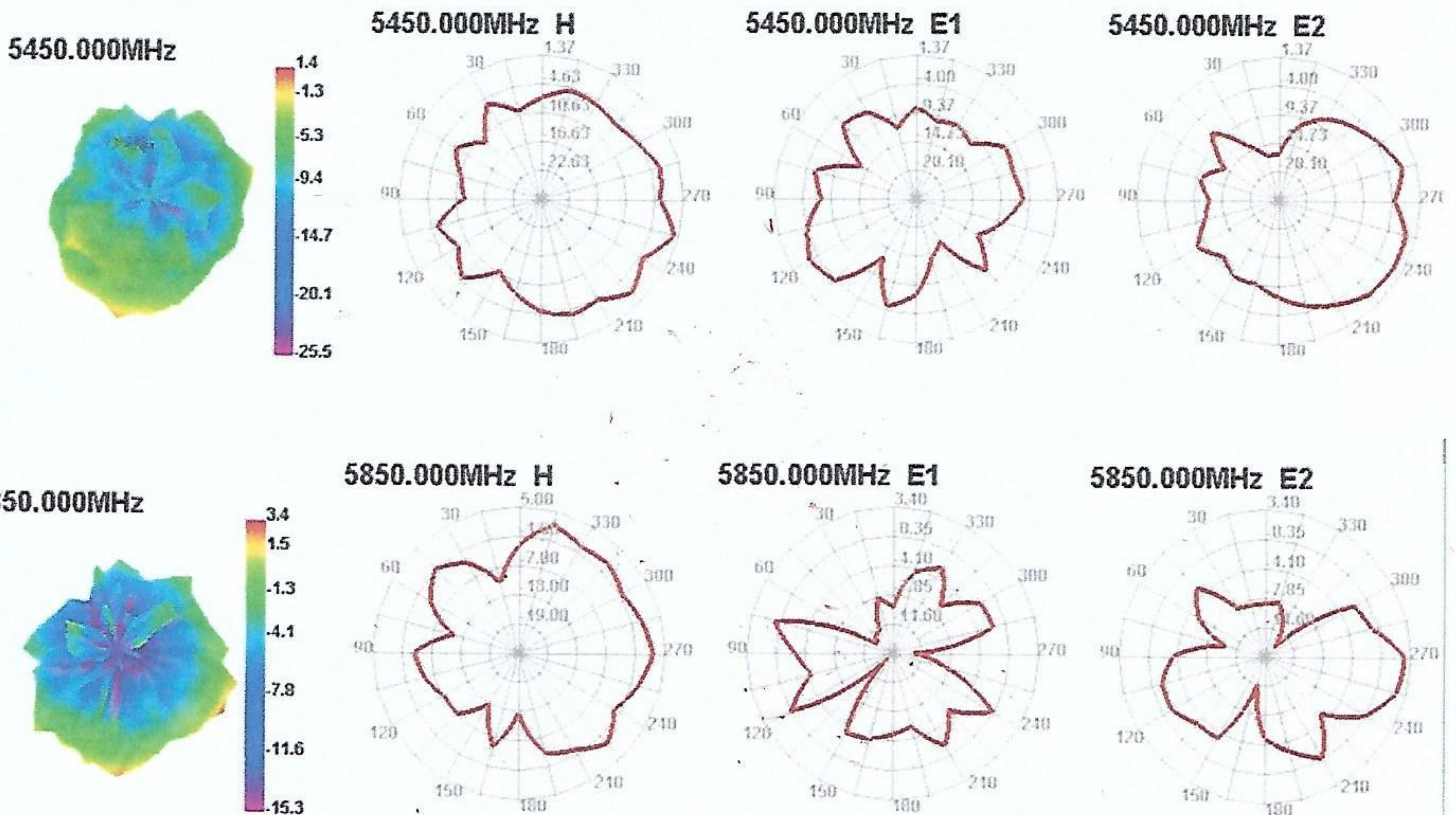


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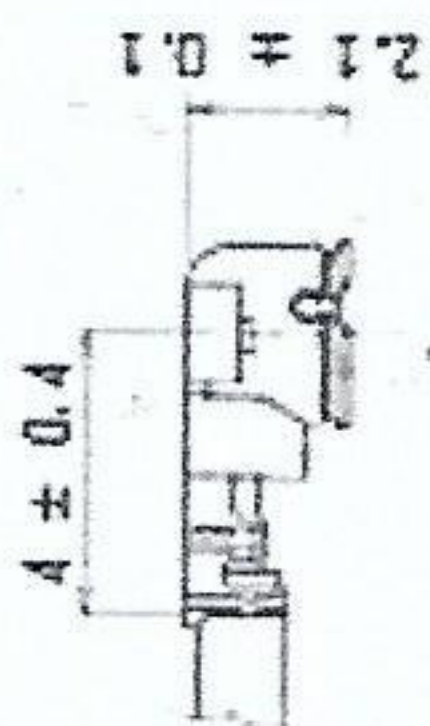
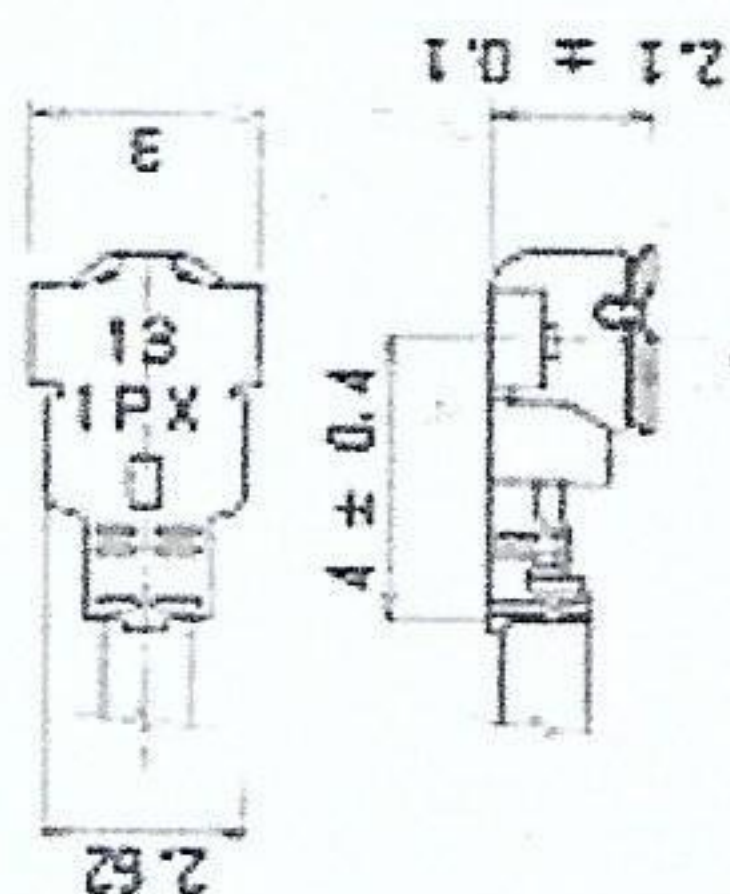


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
2400	47.06	-3.27	0.57	-1.58
2405	45.6	-3.41	0.36	-1.79
2410	49.46	-3.06	0.81	-1.34
2415	45.94	-3.38	0.44	-1.71
2420	48.96	-3.1	0.76	-1.39
2425	52.72	-2.78	1.07	-1.08
2430	52.54	-2.79	1.05	-1.1
2435	52.67	-2.78	1.01	-1.14
2440	54.42	-2.64	1.09	-1.06
2445	55.15	-2.58	1.09	-1.06
2450	51.83	-2.85	0.68	-1.47
2455	55.4	-2.56	0.98	-1.17
2460	52.21	-2.82	0.72	-1.43
2465	51.49	-2.88	0.76	-1.39
2470	49.3	-3.07	0.55	-1.6
2475	53.32	-2.73	0.92	-1.23
2480	54.14	-2.66	0.98	-1.17
2485	53.75	-2.7	0.92	-1.23
2490	59.49	-2.26	1.4	-0.75
2495	56.31	-2.49	1.23	-0.92
2500	55.03	-2.59	1.15	-1

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
5000	23.32	-6.32	-0.82	-2.97
5050	26.74	-5.73	-0.56	-2.71
5100	28.01	-5.53	-0.24	-2.39
5150	31.95	-4.95	0.34	-1.81
5200	34.45	-4.63	1.06	-1.09
5250	43.87	-3.58	1.45	-0.7
5300	46.46	-3.33	1.73	-0.42
5350	48.73	-3.12	2.24	0.09
5400	48.1	-3.18	2.51	0.36
5450	43.31	-3.63	1.8	-0.35
5500	43.9	-3.58	1.88	-0.27
5550	35.27	-4.53	1.07	-1.08
5600	24.47	-6.11	0.48	-1.67
5650	23.92	-6.21	0.22	-1.93
5700	22.03	-6.57	-0.16	-2.31
5750	20.32	-6.92	-0.92	-3.07
5800	19.69	-7.06	-0.97	-3.12
5850	22.56	-6.47	-0.57	-2.72

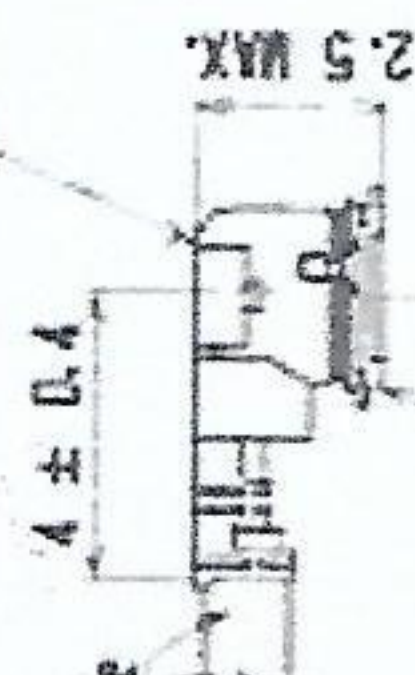
Material Data Sheet

MHF Connector



Cable Ass'y

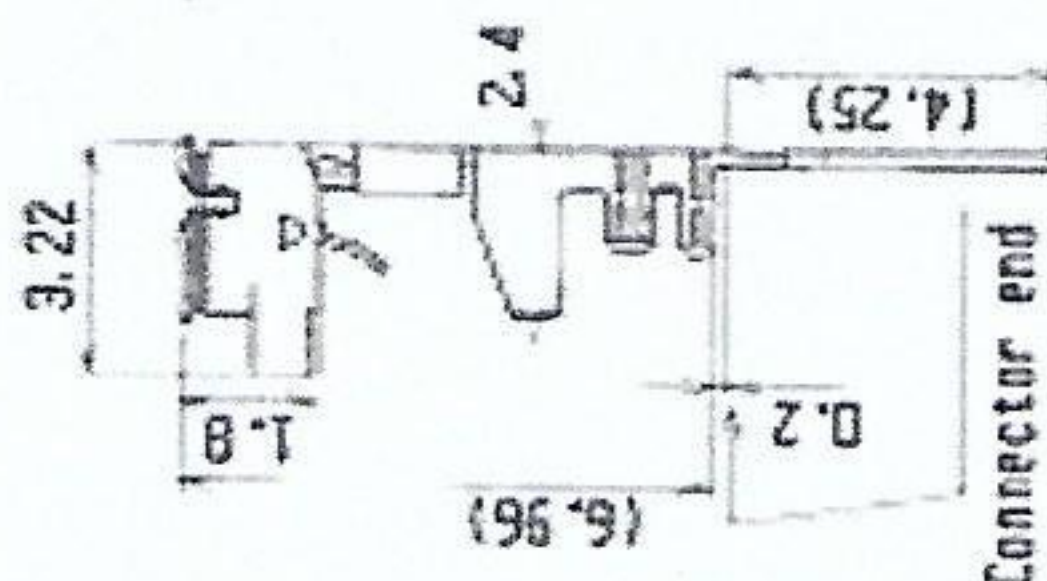
20278-1. R-06
20278-1. R-13
20278-1. R-32



Coaxial cable

Receptacle
Part No. 20279-001E-01
20441-001E-01

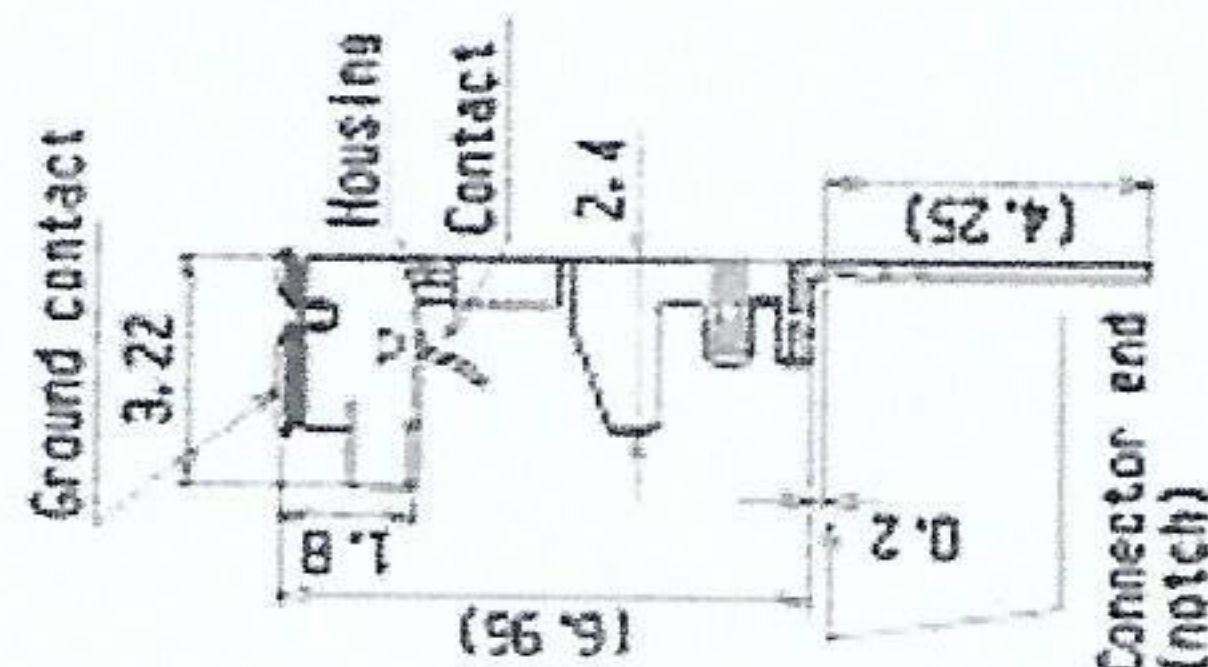
SHILB



Conclusions

Part No. 20270-111R-08
20270-112R-08
20270-111R-13
20270-112R-13
20270-111R-32
20270-112R-32

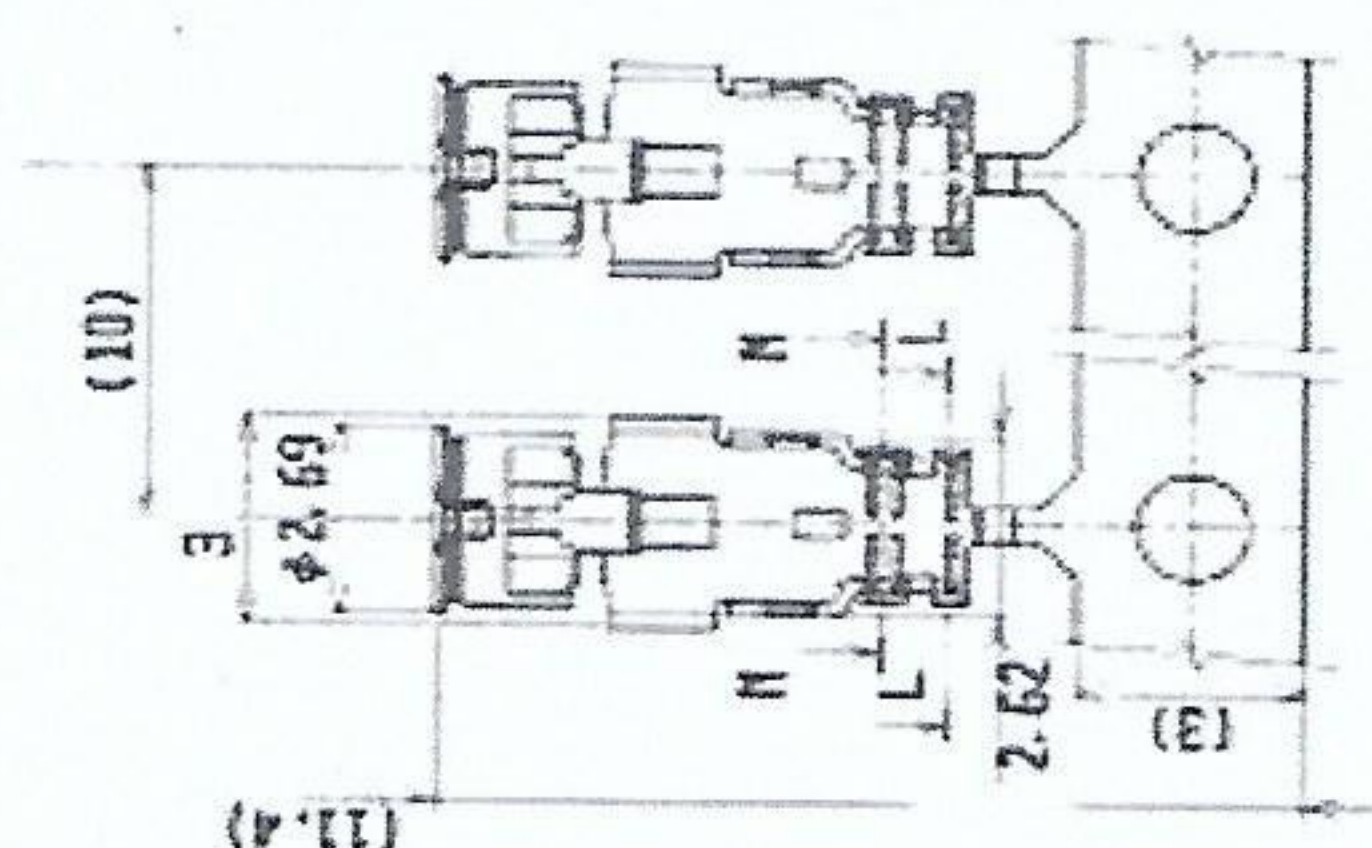
For semi auto
termination machine
(without notch)



សិក្សាស្រាវជ្រាវ (២០១៤)

Part No. 20270-101R-00
20270-102R-00
20270-101R-13
20270-102R-13
20270-101R-32
20270-102R-32

for hand tool
(with notch)



PART NO.
20279-00R-00

GENERAL TOLERANCE		6 MAX. ± 0.2	
6 OVER MAX. 30		± 0.3	
30 OVER MAX. 120		± 0.5	
ANGLE		$\pm 2^\circ$	

REV	DATE	BY	DATE	APP	BY	DATE	APP
15C	2013/06	K.O.	2013/10/27/08	E.K.	K. Ohtsuyashi	JUN/13/08	
17C	2012/33	K.O.	2013/10/27/05	T.H.	CUC O BY	DATE	
16C	2012/24	K.O.	2013/10/27/05	T.H.	APP O BY	DATE	
15C	2013/30	K.O.	2013/12/27/04	T.H.	K. Katsubuchi	JUN/13/08	
REV	ECN	BY	DATE	APP	CUSTOMER COPY		
REV. RECORD							
SERIES No.				2014			

15C	2013/06	K.O.	2013/10/27/08	E.K.	K. Ohtsuyashi	JUN/13/08	
17C	2012/33	K.O.	2013/10/27/05	T.H.	CUC O BY	DATE	
16C	2012/24	K.O.	2013/10/27/05	T.H.	APP O BY	DATE	
15C	2013/30	K.O.	2013/12/27/04	T.H.	K. Katsubuchi	JUN/13/08	
REV	ECN	BY	DATE	APP	CUSTOMER COPY		
REV. RECORD							
SERIES No.				2014			

I-PEX

Interconnect and Packaging Electronics TOKYO, JAPAN

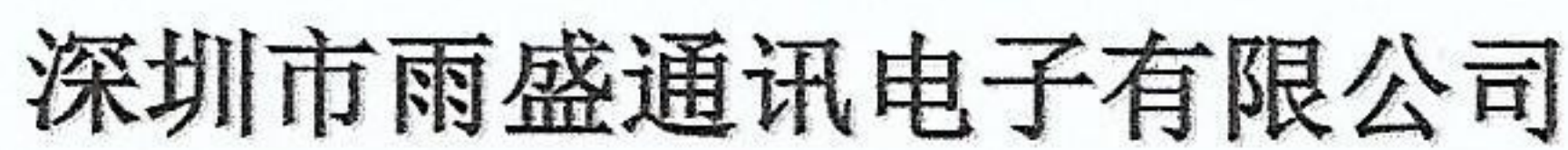
General

RF series ultra small connector plus vertical (ground contact : gold plated)

SCALE (UNIT) : 0.05 mm

20278

1/4 19C



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Part No. of con halogen free type	20278-101R-00	20278-111R-00	20278-101R-13	20278-111R-13	20278-101R-32	20278-111R-32	20278-101R-18	20278-111R-18
Part No. of halogen free type	20278-102R-00	20278-112R-00	20278-102R-13	20278-112R-13	20278-102R-32	20278-112R-32	20278-102R-13	20278-112R-13
Housing color	White	White	Black	Black	Black	Black	White	White
Applicable cable nominal dimension	2.09±0.1	2.09±0.1	2.09±0.1	2.09±0.1	2.09±0.1	2.09±0.1	2.09±0.1	2.09±0.1
Jacket	Dielectric core Outer conductor silver or tin plating	Dielectric core Outer conductor silver plating	Dielectric core Outer conductor silver plating	Dielectric core Outer conductor silver plating	Dielectric core Outer conductor silver plating	Dielectric core Outer conductor silver plating	Dielectric core Outer conductor silver plating	Dielectric core Outer conductor silver plating
P/N of hand Tool	90187-008C	90187-013C	90187-032C	90213-013C	90213-032C	90213-032C	90233-018	90232-018
Sect. H-M	1.63	1.12	2.24	2.29	2.71	3.1	1.9	2.26
Sect. L-L	1.72	1.19	2.28	2.37	3.1	3.1	1.9	2.26
Crimp Height	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40	CH-1 1.34~1.40
	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84	CH-2 0.76~0.84
	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97	CH-3 0.85~0.97

NOTE-1
中心導体、外部導体への半田コテリは不可
Must not use solder coated
Inner conductor and outer conductor.

I-PEX
Interconnect and Protection Environment FOR 10.0000

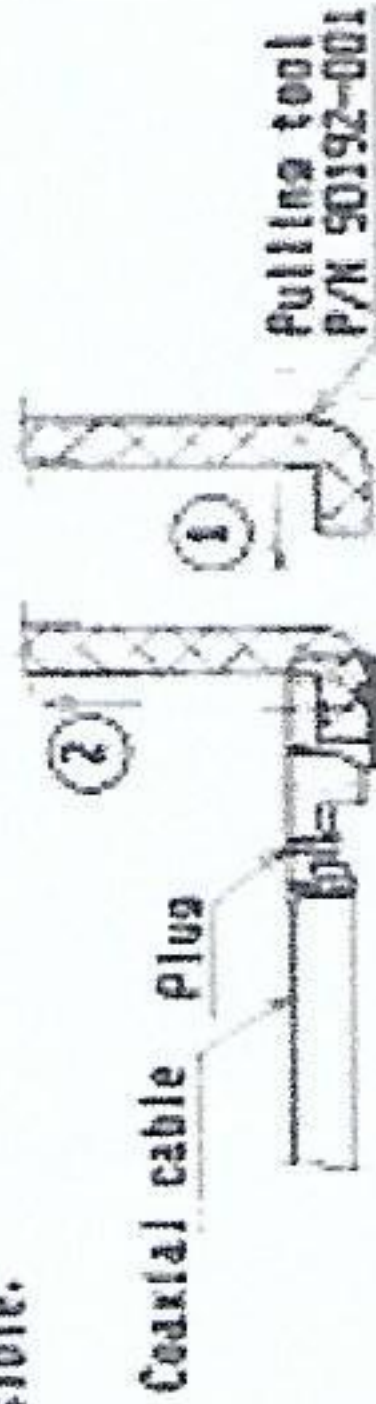
General

REV. 3/4 18C

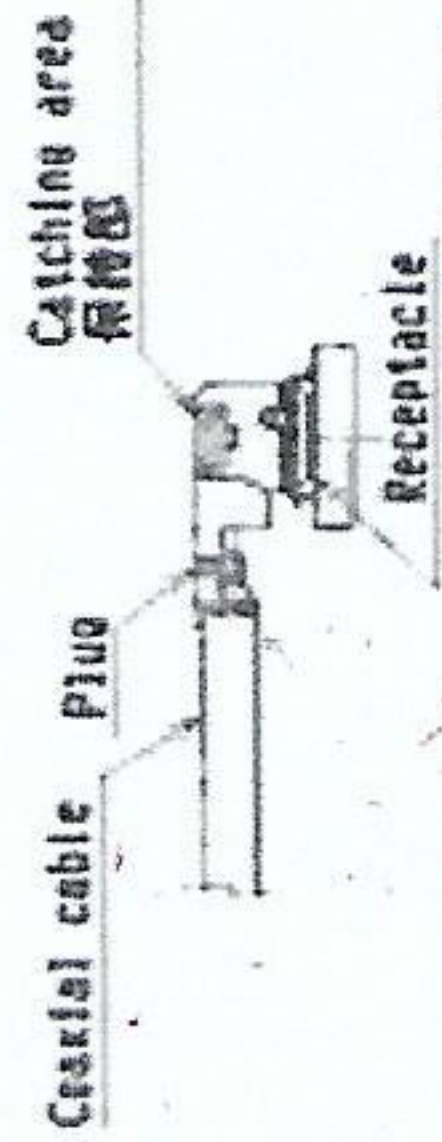
5-2 连接器组装

5-2 Unmating.

(1) In case of unmating by pulling tool.
Please use the pulling tool as the following drawing, and please pull plug to vertical direction as directly as possible.



(2) In case of unmating directly by hand.
Please catch the catching area of plug, and please pull plug to vertical direction as directly as possible.



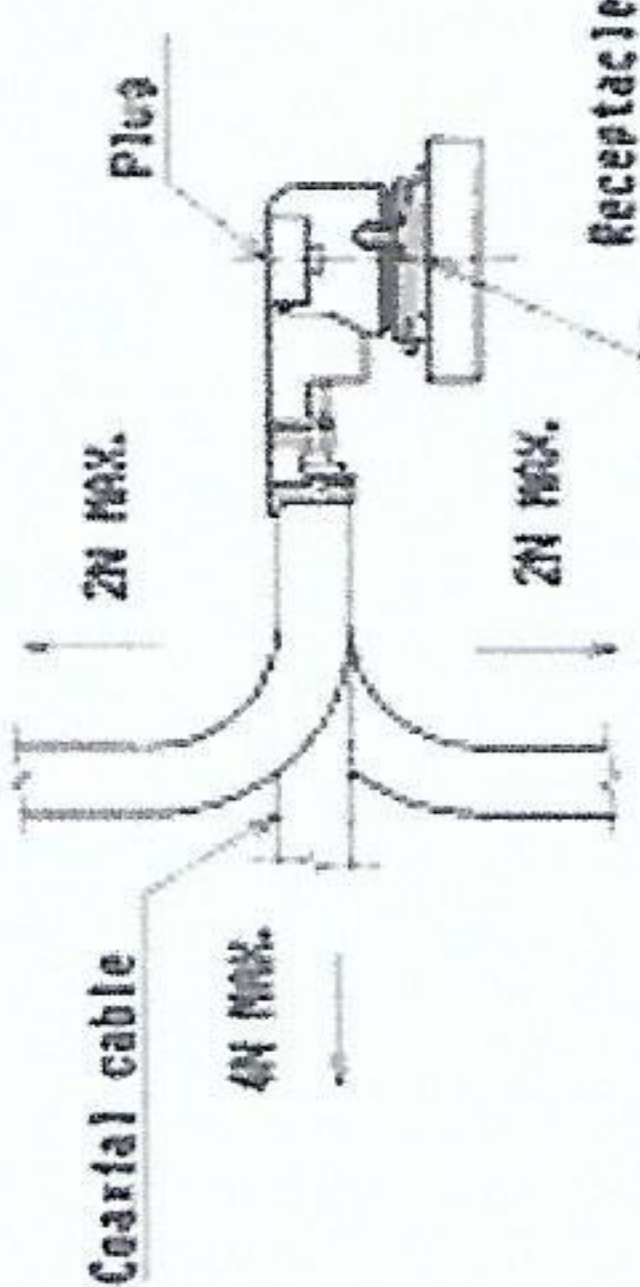
5-3 Crimp over standards of outer conductor.
Standards: Less than 10% from total numbers of outer conductor.
(Numbers of outer conductor's crimp over from outer conductor's barrel)

5-4 Caution about Heat shrinkage tubes.
Please be careful not to melt housing when using heat shrinkage tubes. It will become cause of open circuit.

6. This is 'Pb-free' connector.

Notes

1. Material
(1) Housing: PBT, UL94V-0
(2) Contact
phosphor bronze
gold plating 0.1μm MIN.
over nickel 1.27μm MIN.
(3) Ground contact
phosphor bronze
gold plating 0.05μm MIN.
over nickel 1.27μm MIN.
2. Packing: reel
3. Mating partner part No.: 20279-001E-01, 20441-001E-01
4. Permissible load of cable at mating



5. Suggestions for mating & unmating operation.

5-1 Mating.
Please mate the connector straightly to vertical direction as much as possible, adjusting the mating axis of plug and receptacle. As excessive slant angle mating may break the connector, please don't do it.

5. コネクタの合着および抜去時の注意

5-1 コネクタの合着
PlugとReceptacleの中心を合わせ、直線的に挿入して下さい。
コネクタの合着時に、過度な斜角での挿入は行わないで下さい。
過度な斜角での挿入は、コネクタの破損の原因となります。

DESIGN BY		DATE	CHK BY		DATE	APP BY		DATE
REV. ECH		BY	DATE	APP		REV. RECORD		DATE
SERIES No.		2014		CUSTOMER COPY		PROJECTION SCALE		UNIT
TITLE		I-PEX		Interconnect and Passive Electronics		SHEET		REV.
General		20270		4/4		18C		