

产 品 规 格 书

PRODUCT SPECIFICATION SHEET

客 户 名 称 : _____

产 品 名 称 : 2.4&5GHz Antenna L=100mm MHF

产 品 料 号 : LY-SX402-100

客 户 料 号 : _____

送 样 日 期 : 2023-12-11

工程确认：

核准	工程	制作	签章
Approval	Quality	Engineer	

客户确认：

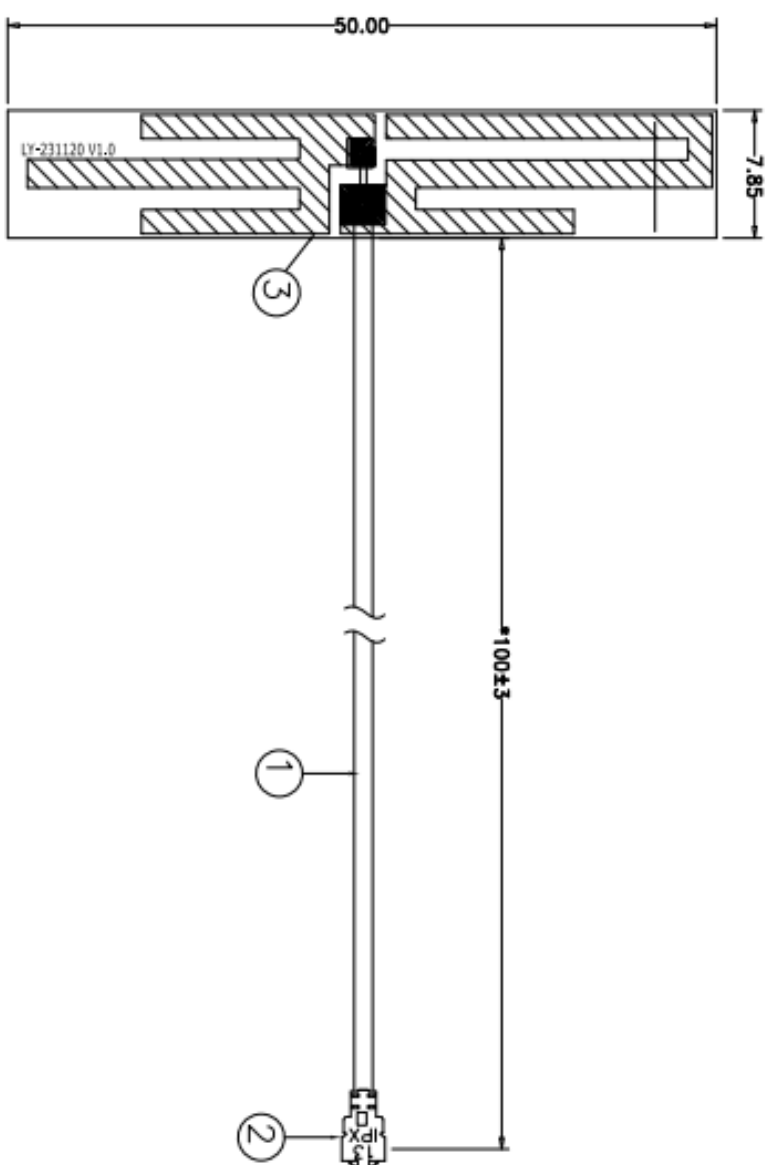
核准	研发	品质	签章
确认结果： ☐ 合格 ☐ 不合格 ☐ 其它			

承认书项目表

Item	Description
1.....	承认书封面
2.....	承认书项目表
3.....	工程图面
4.....	电性测试报告

RoHS Compliant

+6 C:1/1.5/2



REV	DATE	DESCRIPTION
A	07/12-23	New Issue

3	Connector	1	MHF Au Plating
2	FR4	1	50*8*06mm
1	Coaxial Cable	1	O.D. 1.13mm (BLACK)
NO	PART NAME	Q'TY	DESCRIPTION

LANYI 蓝一通讯科技有限公司 LANYI COMMUNICATION TECHNOLOGY CO., LTD Tel: 0769-81239683 13538661663			
TITLE: wifi2458 Antenna(50*8)			
PART NO.: LY-SX402-100		DWG NAME: LY-P325 .dwg	
APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance
		马兰	X. ±1.0
			X.X ±0.5
			X.XX ±0.2
			REVISION: A

RF Antenna Cable Assembly

Specification

1. Electrical Properties

1.1 Frequency Range.....2.4-2.5GHz&5.15-5.85GHz

1.2 Impedance.....50 Ω Nominal

1.3 VSWR.....2:1MAX

1.4 Return Loss.....-10dB Max

1.5 Gain(peak)>2dBi

1.6 Cable loss.....0.3dBi Max

1.7 Polarization.....Linear Vertical

1.8 Admitted Power.....2W

1.9 Cable.....0.D 1.13mm Black

1.10 Conn.....IPEX

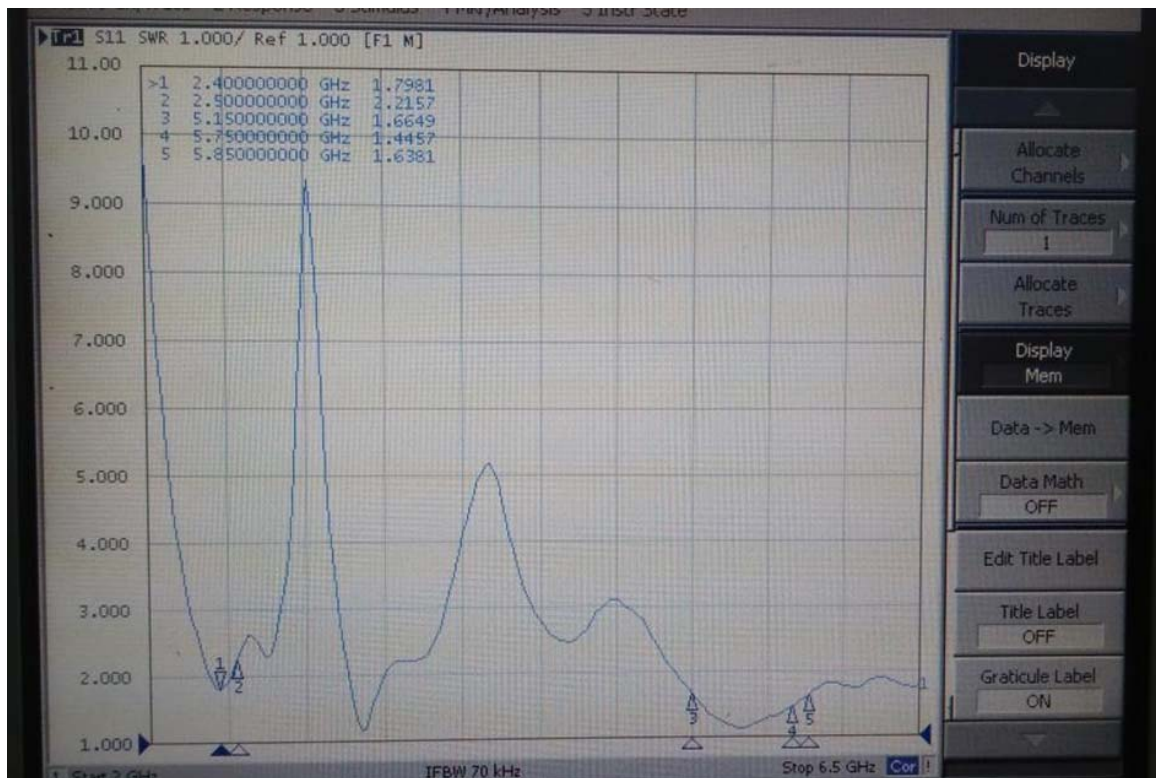
2. Physical Properties:

2.1 Antenna Material..... PCB

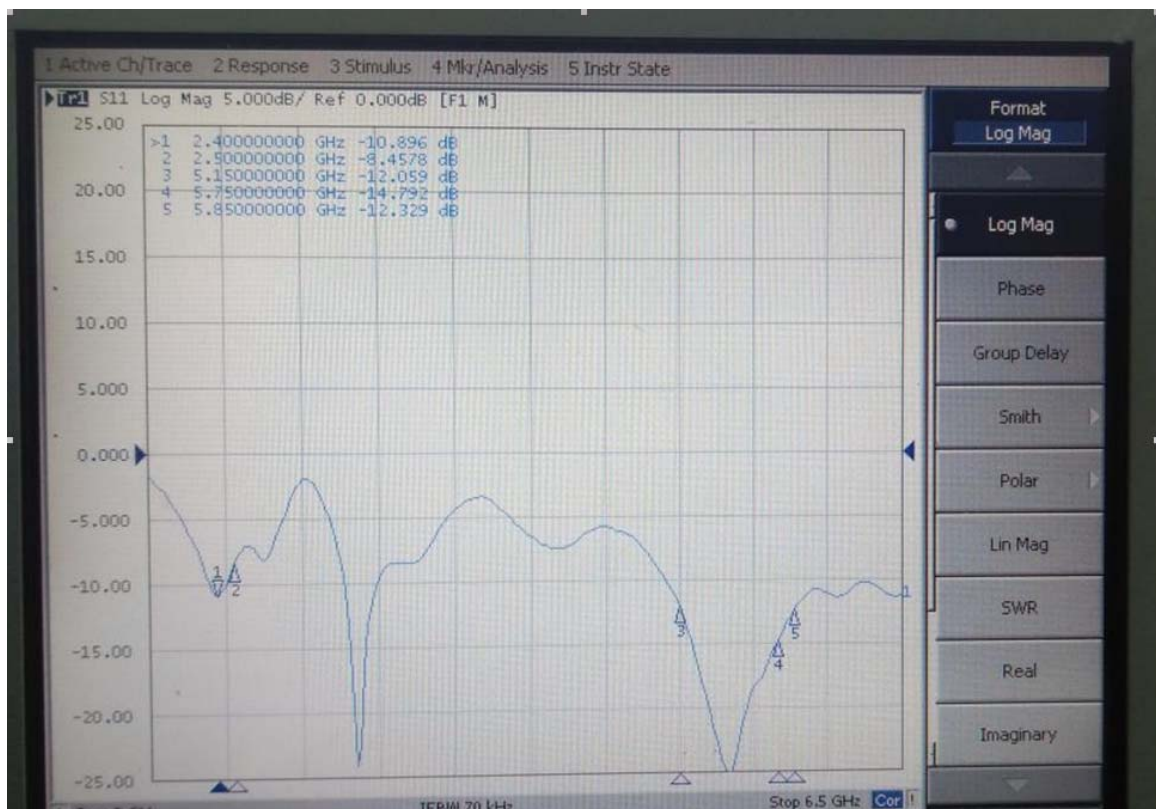
2.4 Operating Temp.....-40 $^{\circ}$ C- +80 $^{\circ}$ C

2.5 Storage Temp.....-40 $^{\circ}$ C- +85 $^{\circ}$ C

VSWR

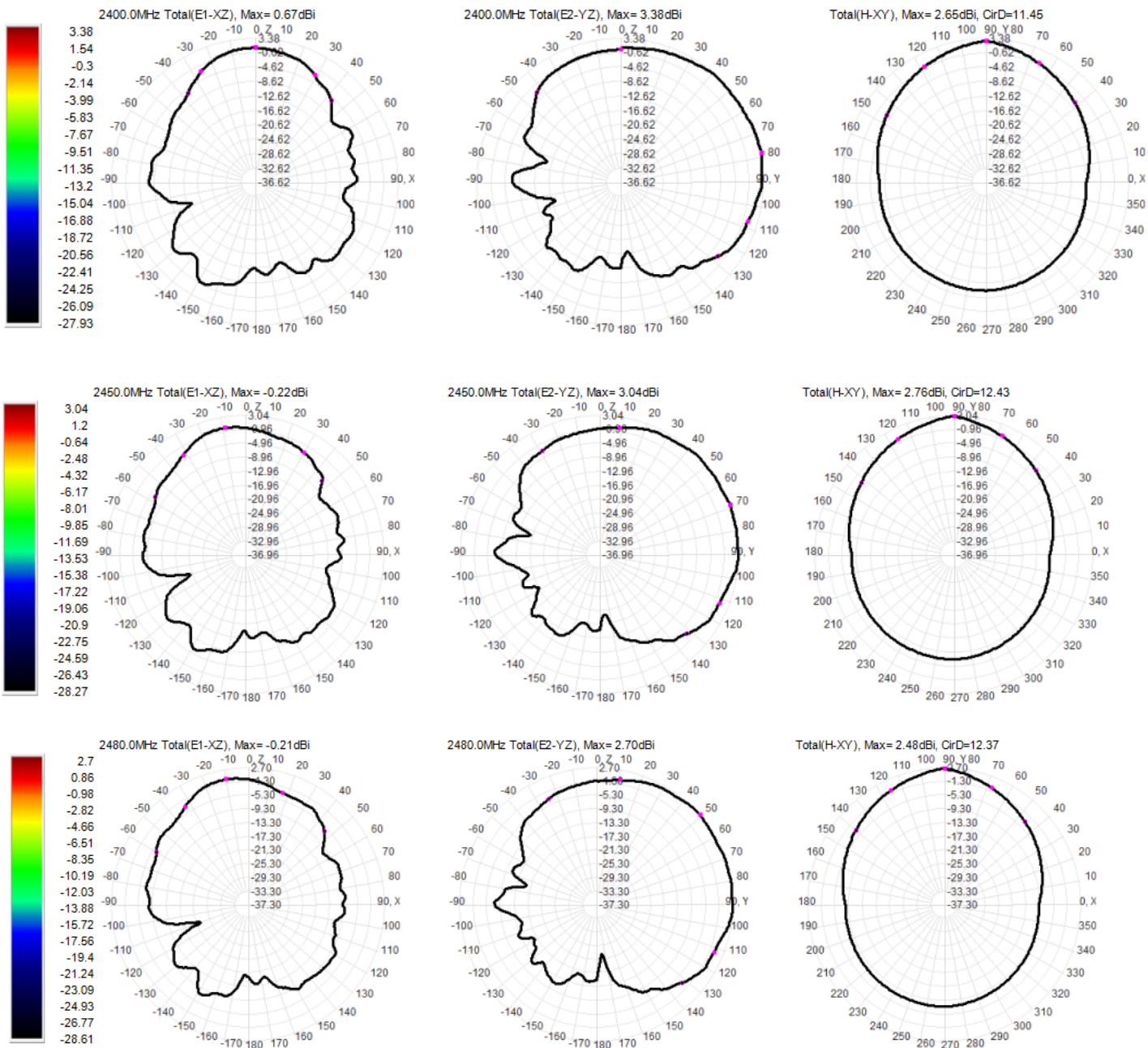


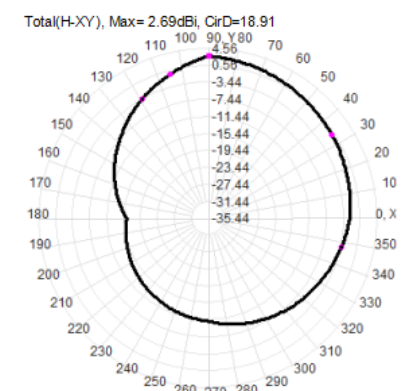
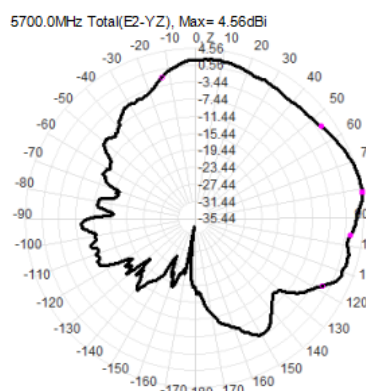
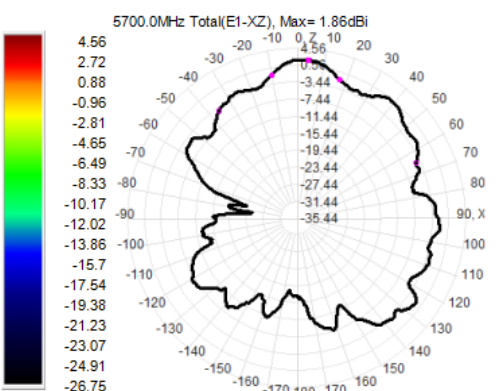
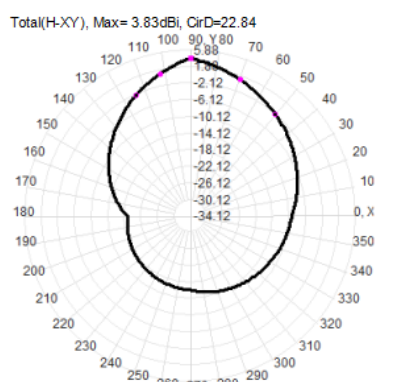
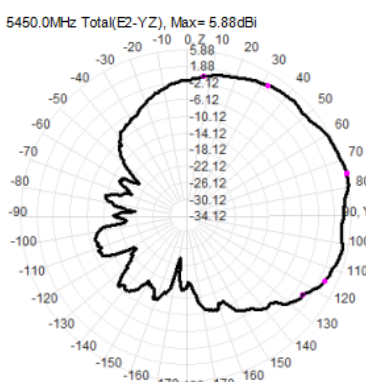
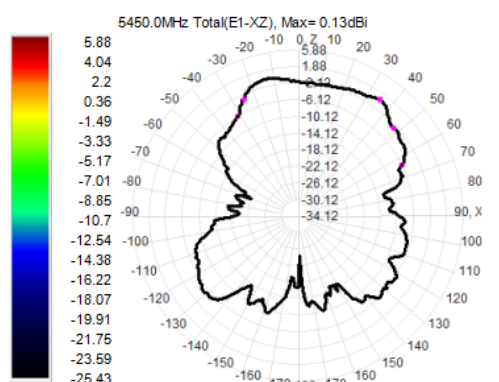
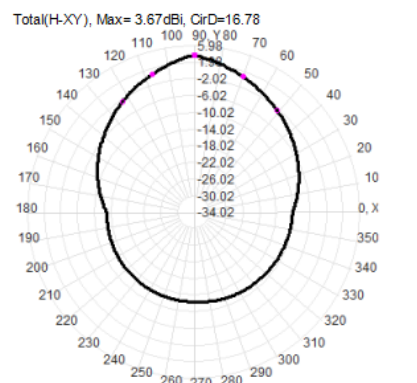
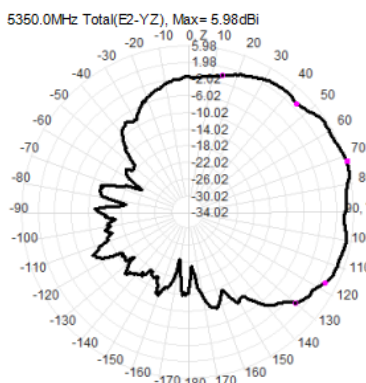
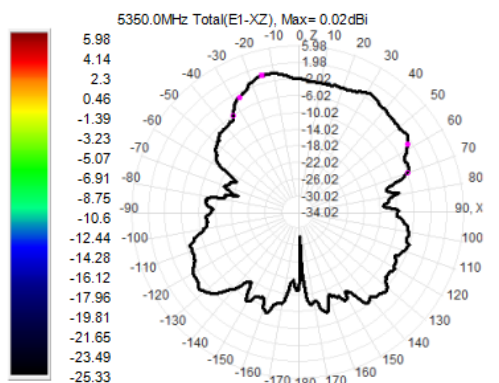
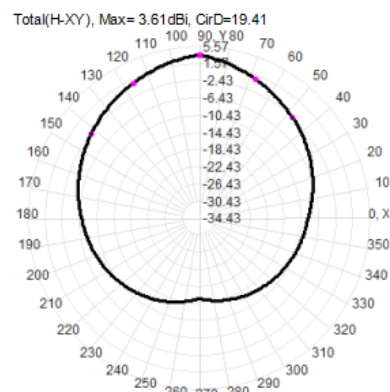
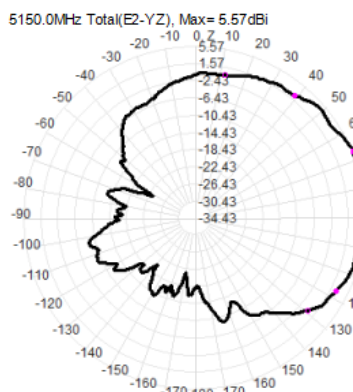
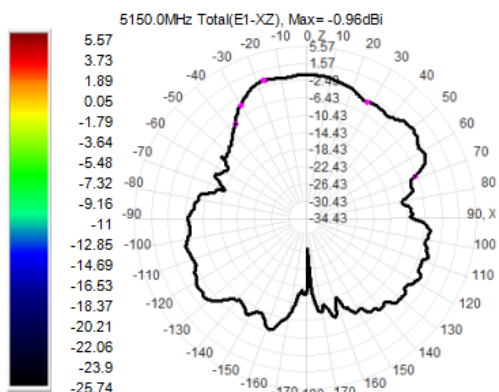
WIFI1 RL



Gain&Efficiency

Frequency ID	1	3	6	9	10	11	12	16	19	23	24	25	26
Frequency (MHz)	2400	2420	2450	2480	2490	2500	5150	5350	5500	5700	5750	5800	5850
Efficiency (dBi)	-3.10	-3.32	-3.38	-3.73	-4.10	-4.26	-2.01	-1.88	-2.32	-2.85	-2.54	-1.89	-1.80
Gain (dBi)	3.38	3.18	3.04	2.70	2.31	2.13	5.57	5.98	5.71	4.56	4.88	5.54	5.60
Efficiency (%)	48.97	46.55	45.88	42.35	38.91	37.49	63.01	64.85	58.65	51.87	55.67	64.70	66.14
Directivity (dB)	6.48	6.50	6.43	6.44	6.41	6.39	7.58	7.86	8.02	7.41	7.43	7.43	7.39
Peak Gain Position (Theta)	78.00	79.00	69.00	49.00	48.00	48.00	67.00	72.00	77.00	81.00	81.00	82.00	82.00
Peak Gain Position (Phi)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
Efficiency ThetaPol (%)	8.43	7.98	8.24	7.79	7.38	7.19	11.78	14.99	18.76	28.95	32.10	36.94	35.13
Efficiency PhiPol (%)	40.54	38.57	37.64	34.55	31.53	30.29	51.24	49.87	39.88	22.93	23.57	27.76	31.01
Upper Hem. Efficiency (%)	34.79	33.26	32.02	29.49	26.80	25.54	38.56	41.70	39.14	34.66	36.67	41.85	41.25
Lower Hem. Efficiency (%)	14.18	13.29	13.86	12.86	12.10	11.95	24.45	23.16	19.51	17.21	19.01	22.85	24.89





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