



Amphenol

天线规格承认书

Antenna Specification Approval Sheet

客户 customer	Qisda Corporation
项目 Project	Olympic (VP6825)
品名 Antenna	Mid Frame (NA)
客户料号 Customer P/N	TY.2ECU0.00A
SAA 料号 SAA P/N	TJD870-16-000-R
图纸号 Drawing NO.	TJD870-16-000-R
图纸版本号 Drawing Rev.	DVT
日期 date	2022-01-06

内部签字栏 SAA signature					
ME	PE	QE	RF	PM	Check by
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Approval by	Approval by	Approval by

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Revision History

Date	Revision	Description of Changes
2021-01-06	A	Initial approve sheet for antenna

1	ANTENNA DESCRIPTION.....	1-3
1.1	Components/Part number	1-3
1.2	Antenna picture.....	1-3
2	MECHANICAL DESCRIPTION.....	2-4
2.1	Appearance Drawing	2-4
2.2	Package drawing	2-5
3	ELECTRICAL PROPERTIES.....	3-6
3.1	Matching Circuit Description.....	3-6
3.2	Frequency Range	3-6
3.3	Return Loss	3-6
3.4	Efficiency.....	3-7
4	PHYSICAL PROPERTIES	4-8
4.1	Antenna material.....	4-8
4.2	Operating temp	4-8
4.3	Storage temp	4-8
5	RESTRICTED SUBSTANCES CONCENTRATION EVALUATION REPORT..	5-9

1 Antenna Description

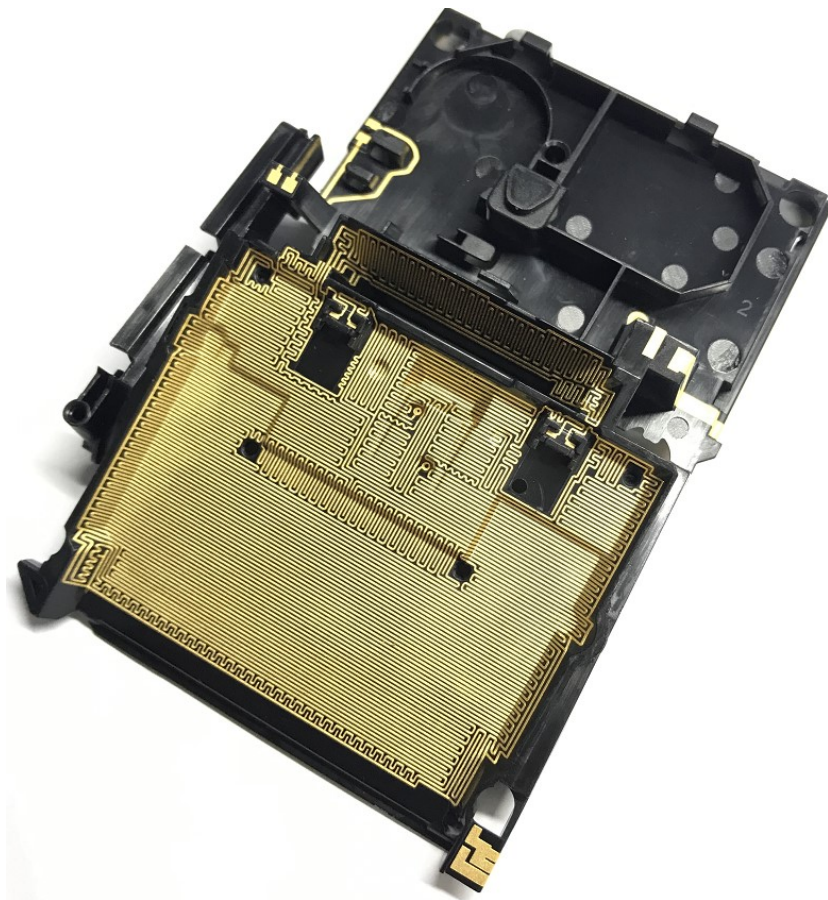
The production and manufacturing of this antenna is accordance with the requirements of ID-TECH's Technical Standard.

1.1 Components/Part number

SAA P/N: TJD870-16-000-R

Qisda P/N: TY.2ECU0.00A

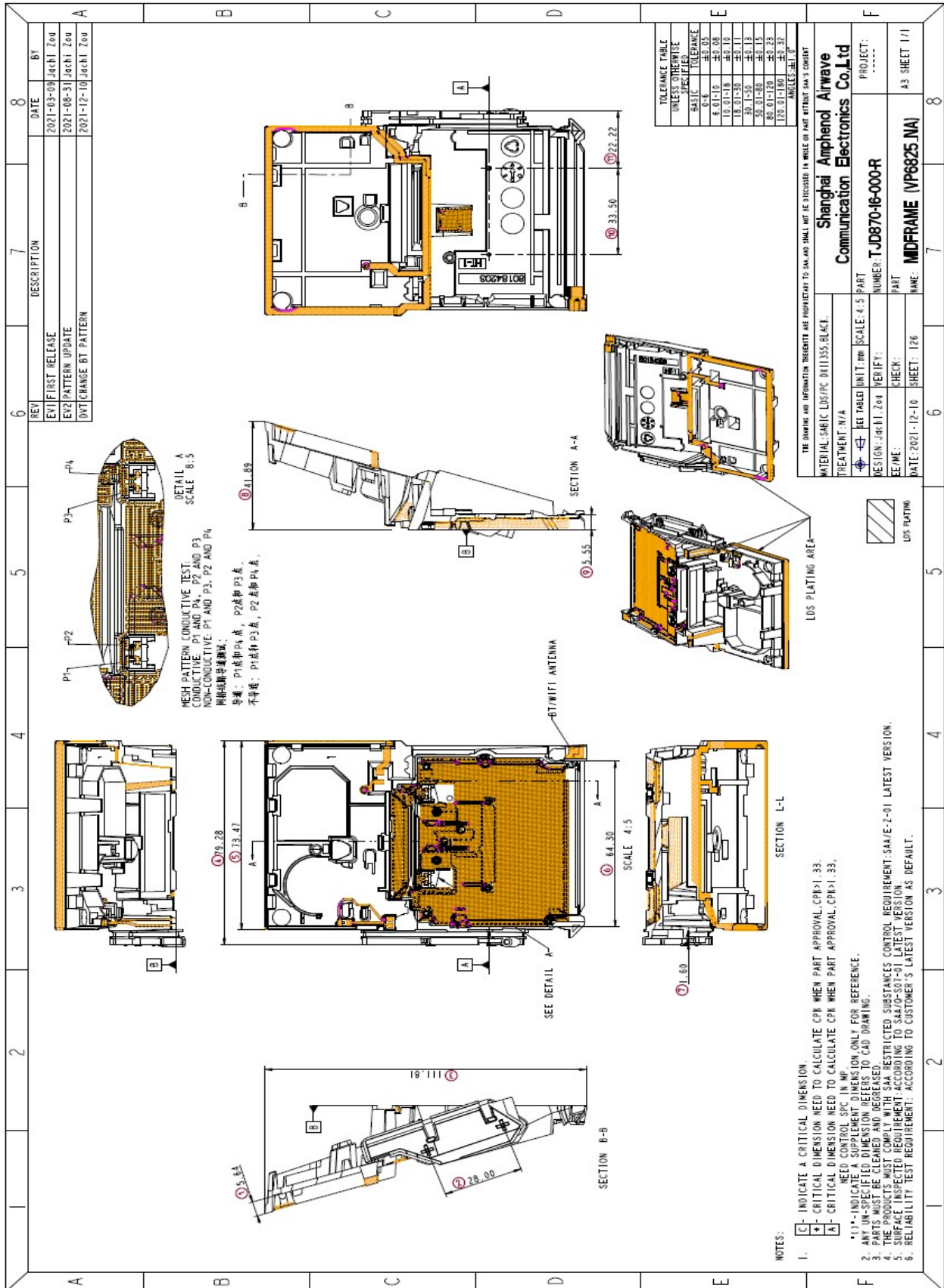
1.2 Antenna picture



Antenna picture

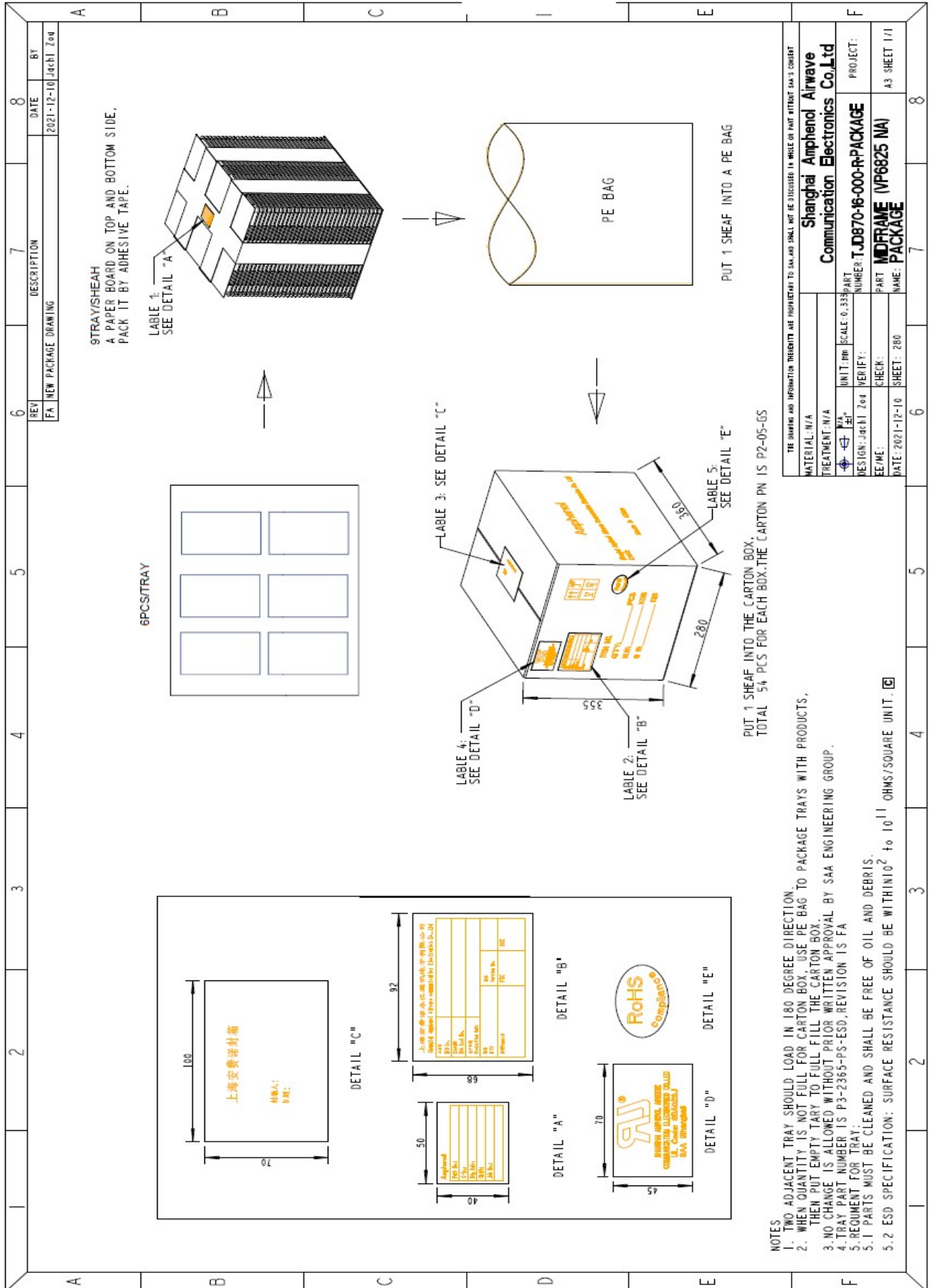
2 Mechanical Description

2.1 Appearance Drawing



- NOTES:
- INDICATE A CRITICAL DIMENSION.
 - CRITICAL DIMENSION NEED TO CALCULATE C/PK WHEN PART APPROVAL, C/PK1.33.
 - CRITICAL DIMENSION NEED TO CALCULATE C/PK WHEN PART APPROVAL, C/PK1.33.
 - NEED CONTROL SPC IN MP.
 - INDICATE A SUPPLEMENT DIMENSION ONLY FOR REFERENCE.
 - ANY UN-SPECIFIED DIMENSION REFERS TO CAD DRAWING.
 - PARTS MUST BE CLEANED AND DEGREASED.
 - THE PRODUCTS MUST COMPLY WITH A44 RESTRICTED SUBSTANCES CONTROL REQUIREMENT: SAH/E-2-01 LATEST VERSION.
 - SURFACE INSPECTED REQUIREMENT: ACCORDING TO SA47P-301-01 LATEST VERSION.
 - RELIABILITY TEST REQUIREMENT: ACCORDING TO CUSTOMER'S LATEST VERSION AS DEFAULT.

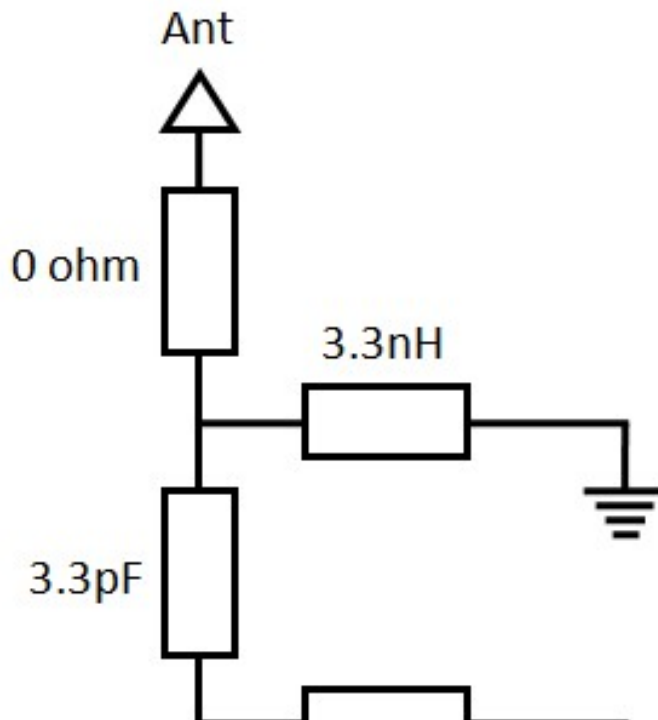
2.2 Package drawing



3 ELECTRICAL PROPERTIES

3.1 Matching Circuit Description

Matching Circuit for WiFi Antenna:



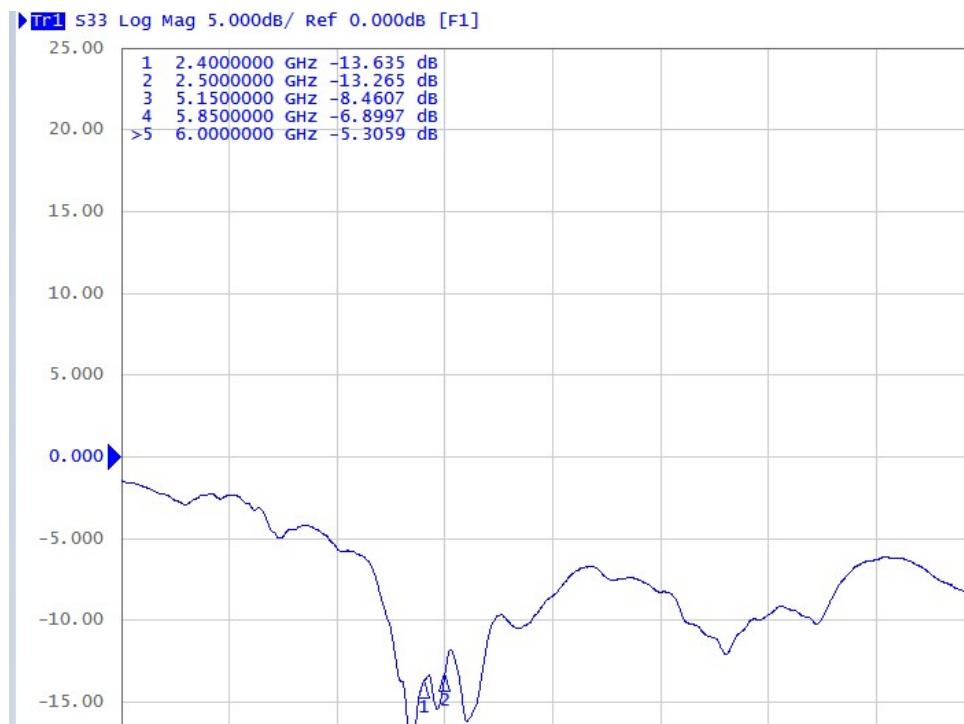
3.2 Frequency Range

NFC Antenna: 13.56MHz

WiFi Antenna: 2.4-2.5GHz & 5.15-5.85GHz

3.3 Return Loss

WiFi Antenna:



3.4 Efficiency

WiFi Antenna:

Freq. MHz	Effi. %	Effi. dB	Peak Gain. dBi
2400	37%	-4.3	1.7
2420	38%	-4.2	1.8
2440	36%	-4.4	1.4
2460	35%	-4.6	0.7
2480	35%	-4.5	0.4
2500	35%	-4.6	0.7
5150	27%	-5.7	0.1
5200	28%	-5.5	0.8
5250	30%	-5.3	0.7
5300	29%	-5.4	1.5
5350	27%	-5.7	0.5
5400	27%	-5.7	0.7
5450	27%	-5.7	1.1
5500	26%	-5.9	1.2
5550	25%	-6.0	0.9
5600	21%	-6.7	0.4
5650	25%	-6.1	0.5
5700	19%	-7.1	0.4
5750	18%	-7.4	0.2
5800	21%	-6.9	0.1
5850	19%	-7.1	-0.7

4 PHYSICAL PROPERTIES

4.1 Antenna material

Part name	Material/Spec./Size.
LDS plating	Plating Cu 12~18mm min, Ni 2~5um, Au 0.05um min.
Mid frame	Sabic LDS/PC DX11355, Black.

4.2 Operating temp

-20°C~+50°C

4.3 Storage temp

Storage temperature span -20deg~+40deg

* Recommended storage condition +10deg~+30deg.

