



Antenna

Customer : Xiaomi

Manufacturer: Shenzhen Hilintech
Technology Co., Ltd

Brand: hilintech

Add: No 3 of Xin An Road,
Bogang Village ,Shajing
Town, Bao'an District,
Shenzhen

Project : O76

Antenna type: FPC Antenna

Product : Bluetooth Antenna

Date: 2024/06/29



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Test Setup for Radiation Pattern Measurement

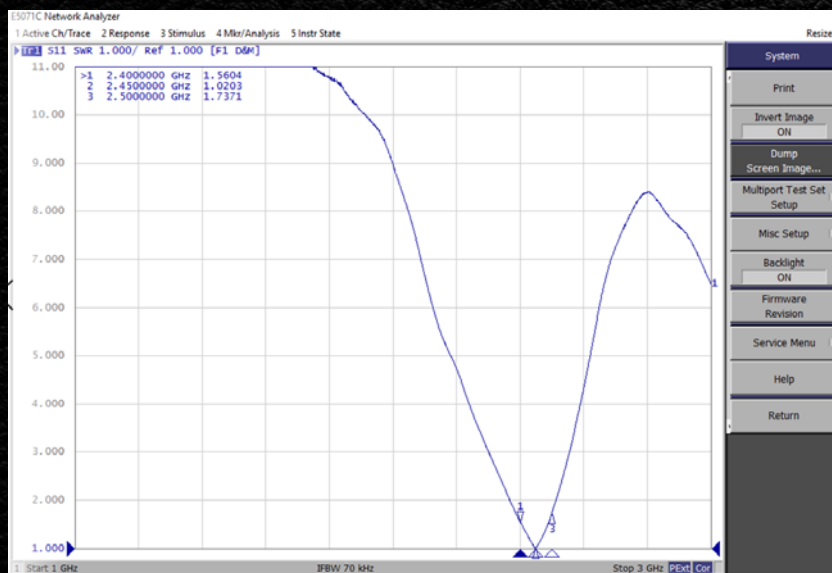


Equipment	Brand	Module Type
Network Analyzer	keysight	5071c (100K-8.5G)
Signal Generator	R&S	CMW500
Signal Generator	Agilent	E4438C
3D Anechoic chamber	General Test	RayZone 2800

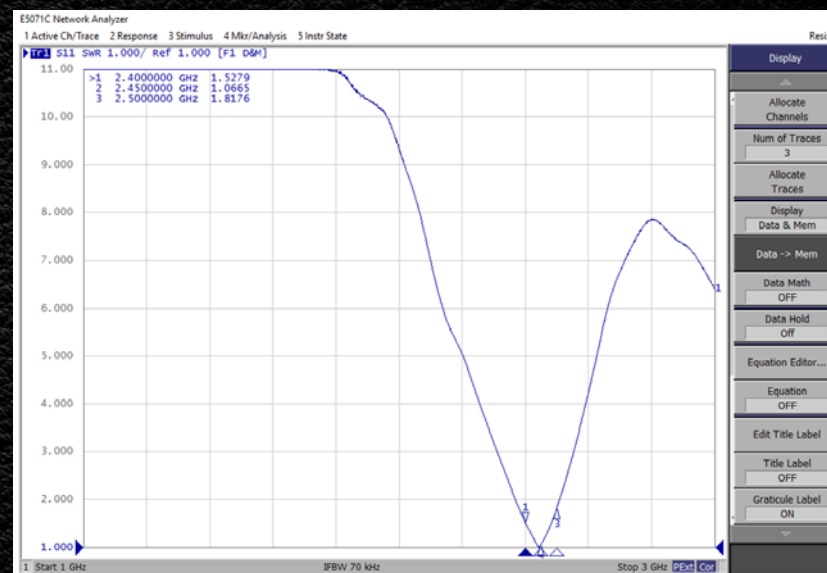


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VSWR Results



	Frequency (MHz)	2400	2450	2500
L	VSWR	1.56	1.02	1.73



	Frequency (MHz)	2400	2450	2500
R	VSWR	1.52	1.06	1.81

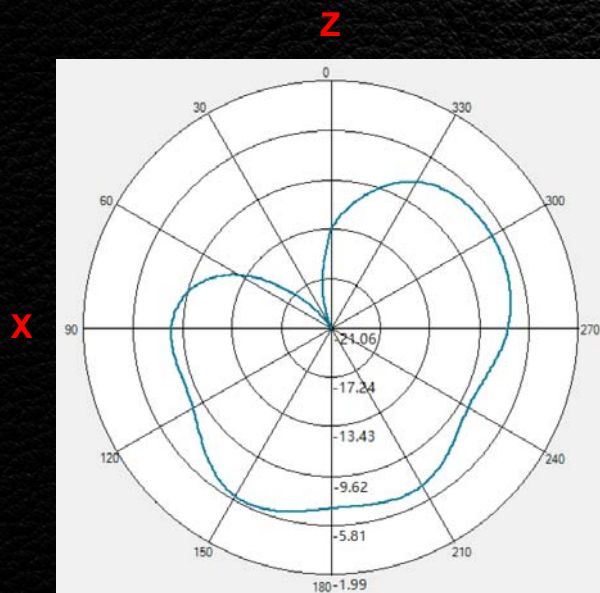


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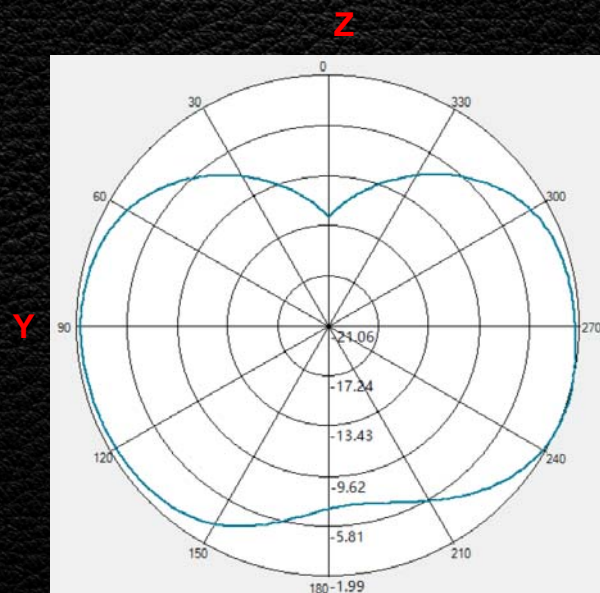
2D Radiation Pattern Results

L @ 2450MHz (Free Space)

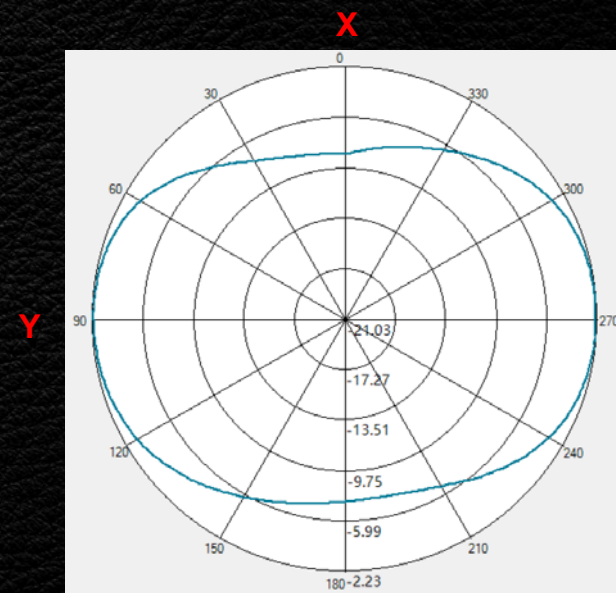
XZ-plane



YZ-plane



XY-plane



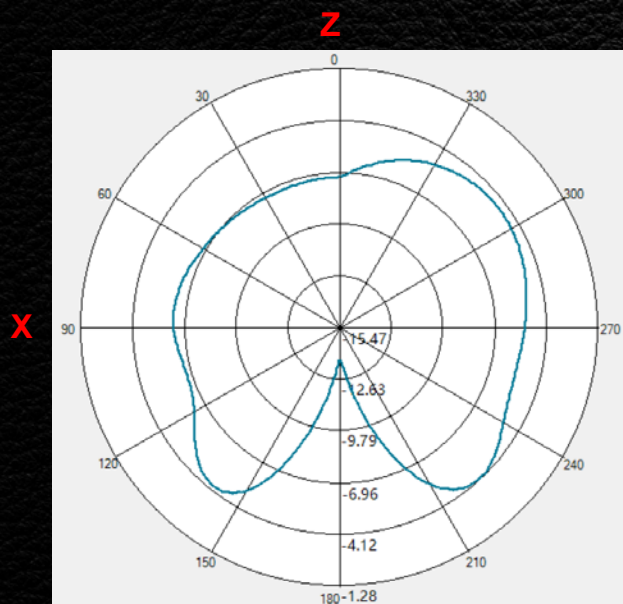


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2D Radiation Pattern Results

R @ 2450MHz (Free Space)

XZ-plane



YZ-plane

Z

Y

Angle (deg)	Value
0	15.47
30	12.83
60	9.79
90	6.96
120	4.12
150	1.28
180	1.28

XY-plane



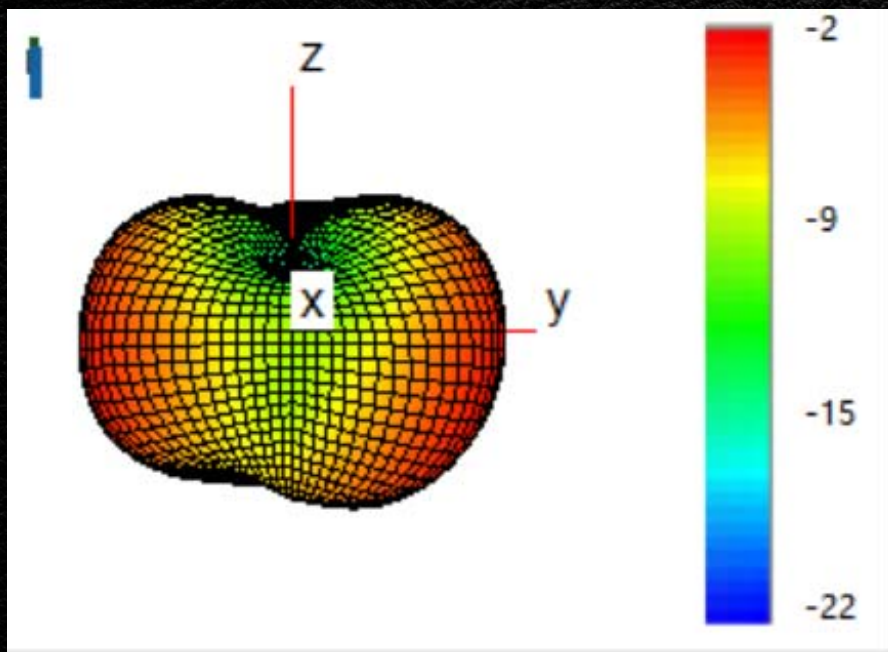


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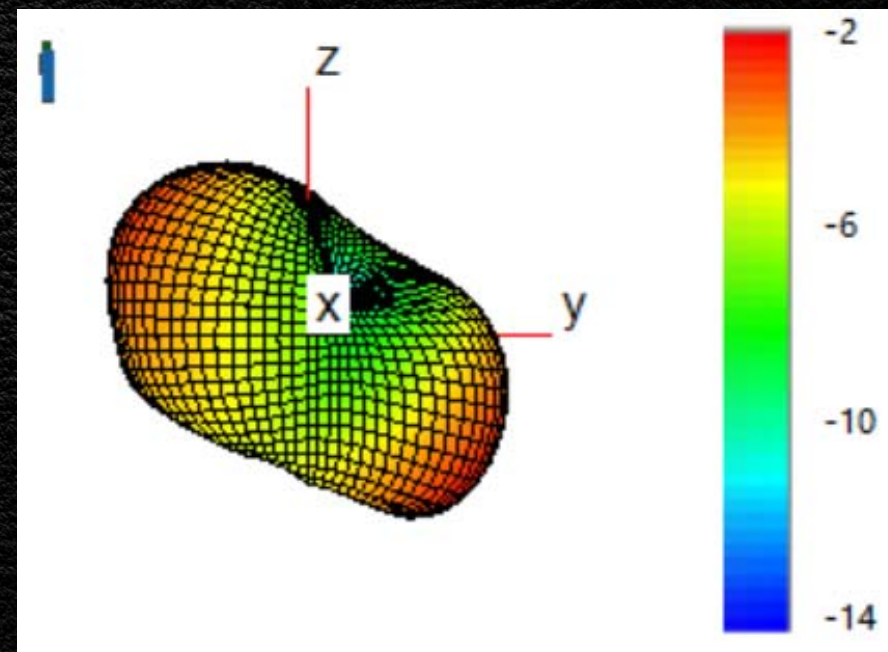
3D Radiation Pattern Results

L&R @2450MHz (Free Space)

L



R





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Results Summary Gain & Efficiency (Free Space)

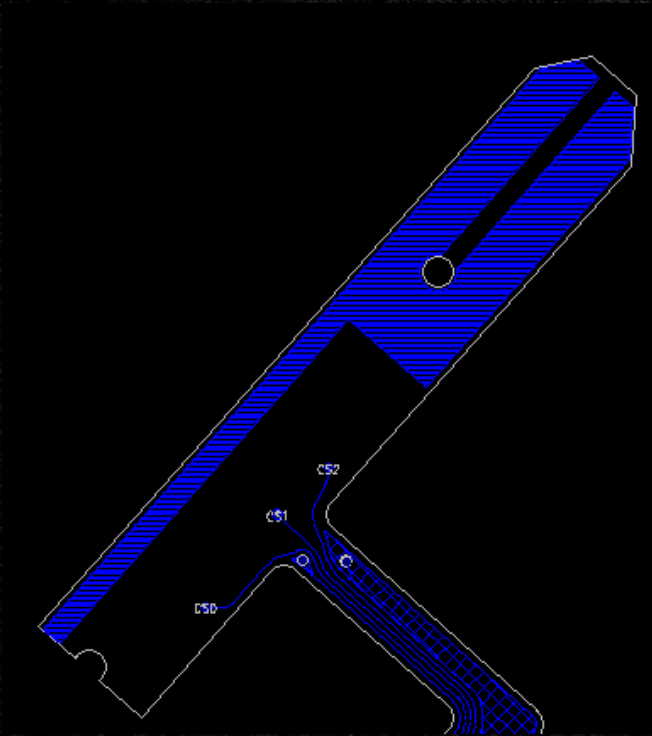
Frequency (MHZ)	L			R		
	Effi(dB)	Effi(%)	Gain(dBi)	Effi(dB)	Effi(%)	Gain(dBi)
2400	-7.09	19.5	-3.1	-7.11	19.5	-3.1
2410	-7.05	19.7	-3.0	-7.09	19.5	-3.1
2420	-7.07	19.6	-2.8	-7.08	19.6	-3.0
2430	-7.05	19.7	-2.7	-7.06	19.7	-2.7
2440	-7.05	19.7	-2.8	-7.09	19.5	-2.7
2450	-7.09	19.5	-2.9	-7.13	19.4	-2.8
2460	-7.24	18.9	-3.1	-7.28	18.7	-3.0
2470	-7.43	18.1	-3.3	-7.39	18.2	-3.1
2480	-7.55	17.6	-3.4	-7.62	17.3	-3.1
2490	-7.7	17.0	-3.4	-7.79	16.6	-3.3
2500	-7.87	16.3	-3.5	-7.95	16.0	-3.4



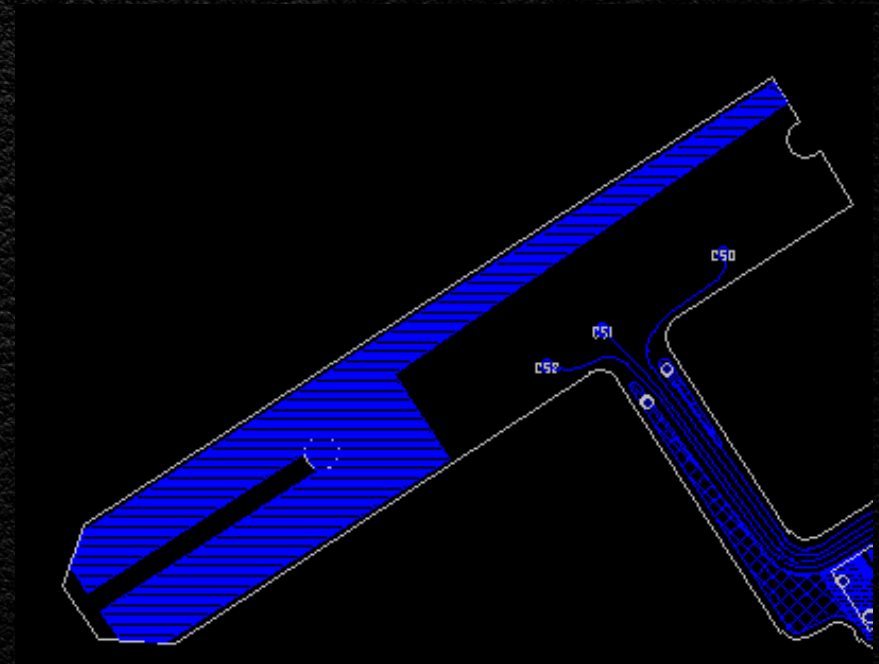
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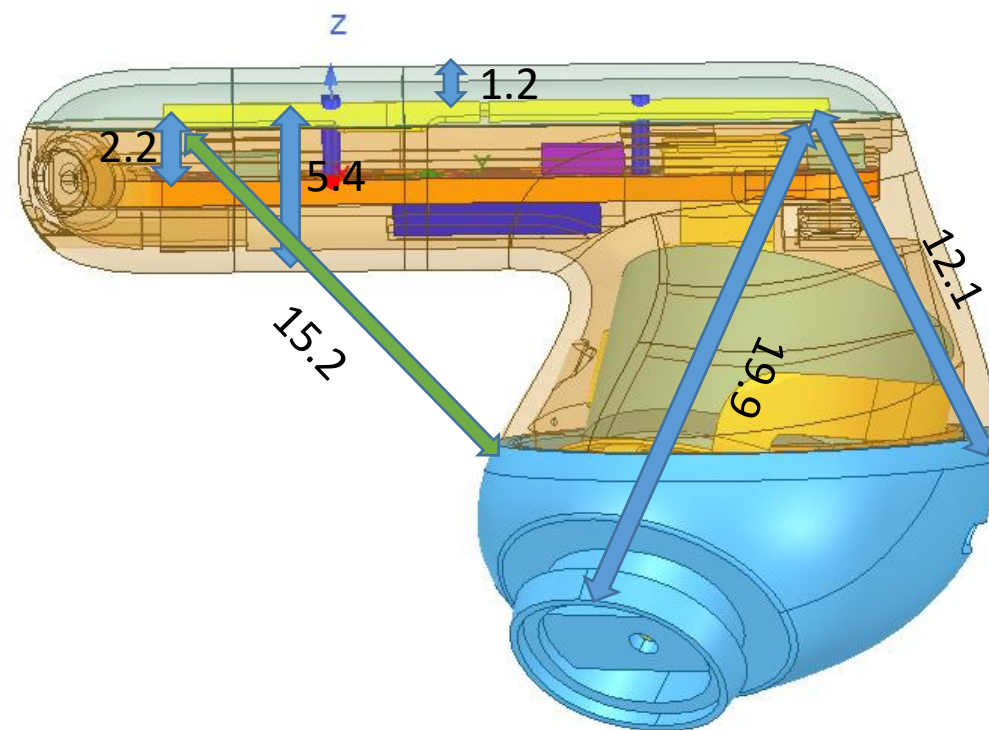
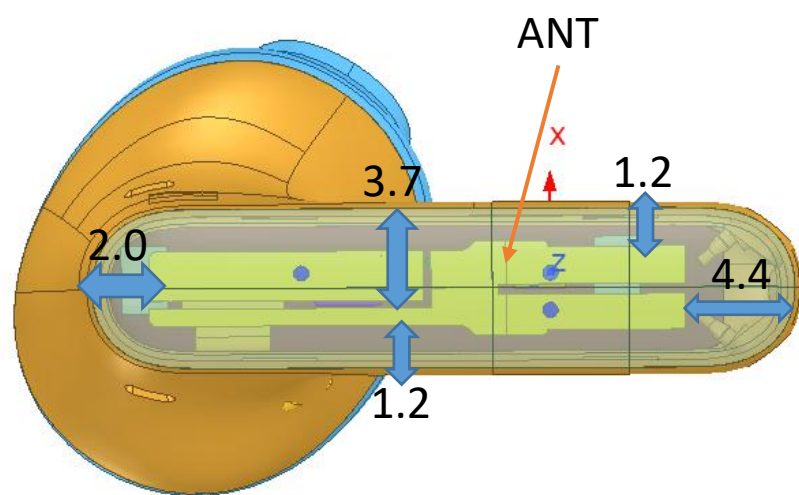
ANT SIZE

L



R

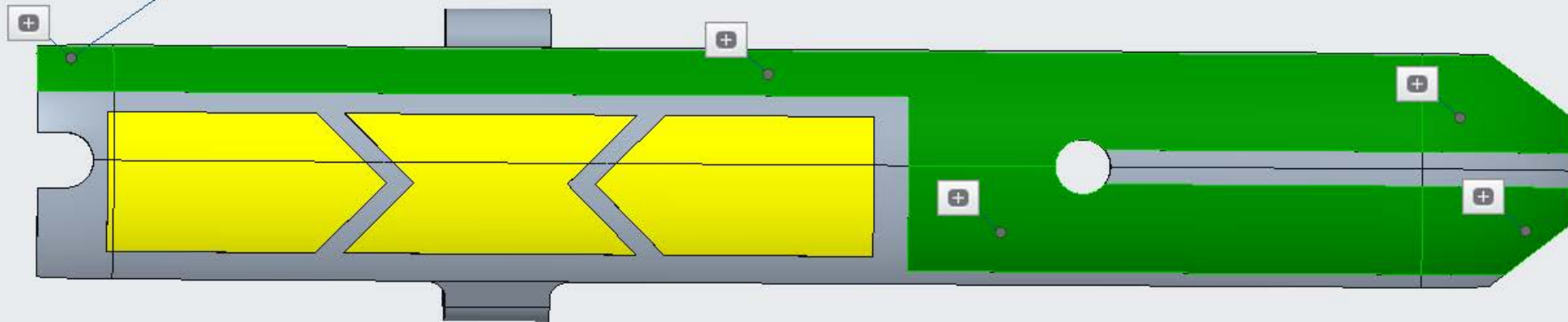


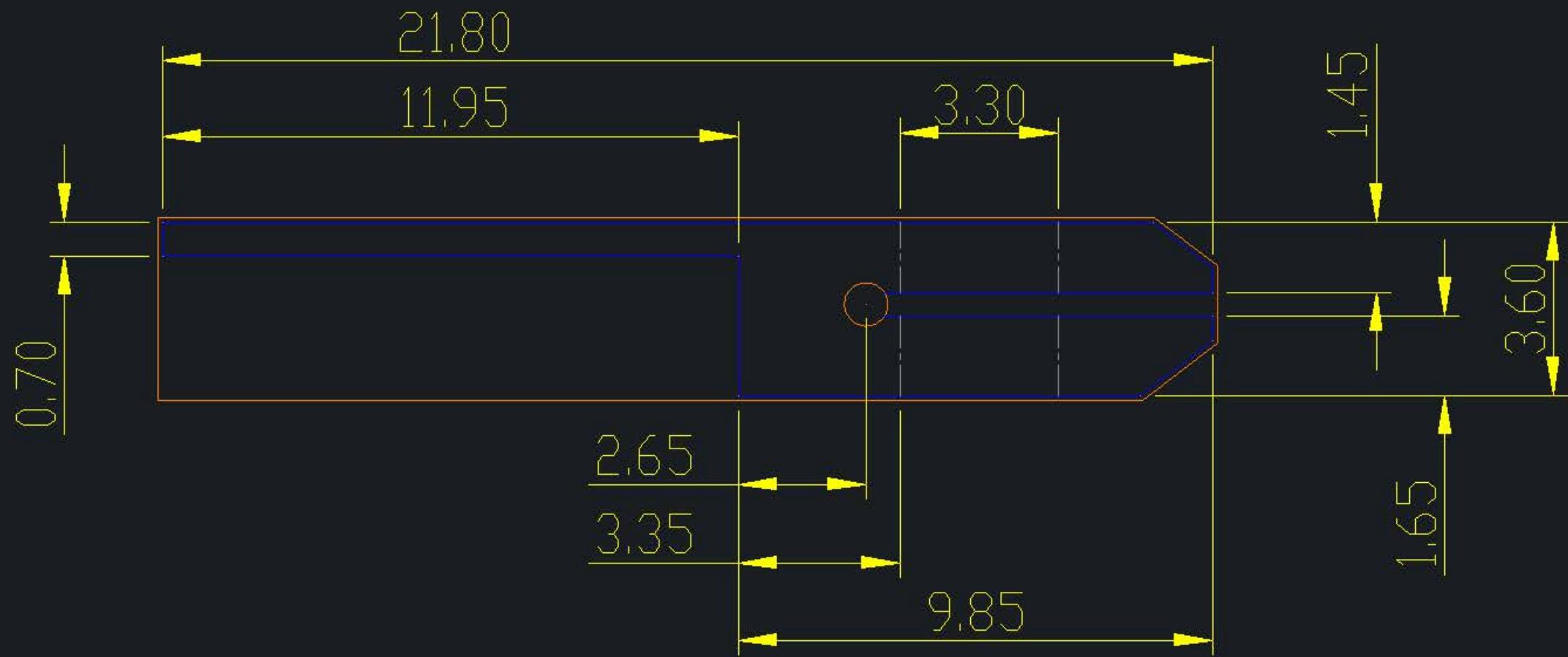


所有参考

面积 36.5823 mm²

周长 75.8662 mm







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THANK YOU !

