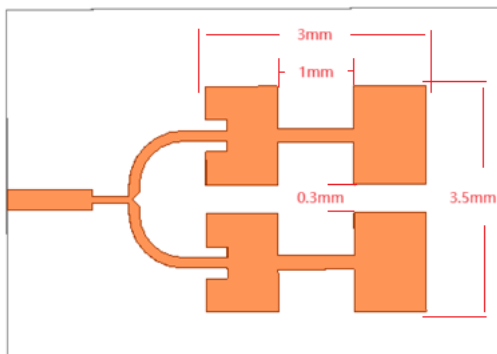


Antenna Specification

application model certified by	
Model name	HCDAR-8H
frequency range (GHz)	76-81
beam angle (°)	7.5
ant. port input pwr (dBm)	10
tot. rad. pwr (dBm)	7.5
peak eirp (dBm)	35
directivity (dBi)	30
efficiency (dB)	-2.5
gain (dBi)	27.5
max power xy	-3.4
min power xy	-19.9
avg power xy	-10.1
input impedance (ohm)	50
polarization type	linear polarization
vswr	<3

Antenna Layout

Antenna Type: Integrated Antenna



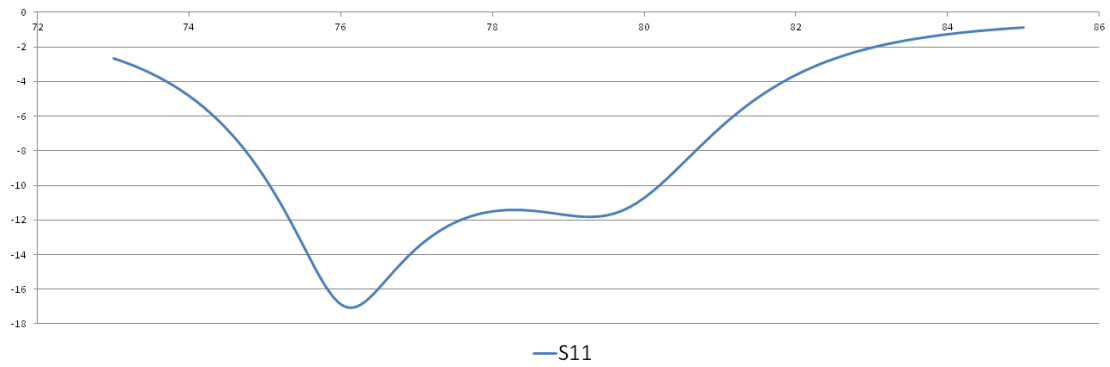
Hebei Huachuang M&C Technology Co., Ltd.

Building #1, South of Puhui Street, West of Guangsheng East Road, High-tech Park Fengnan Economic Development Zone, Tangshan, Hebei China

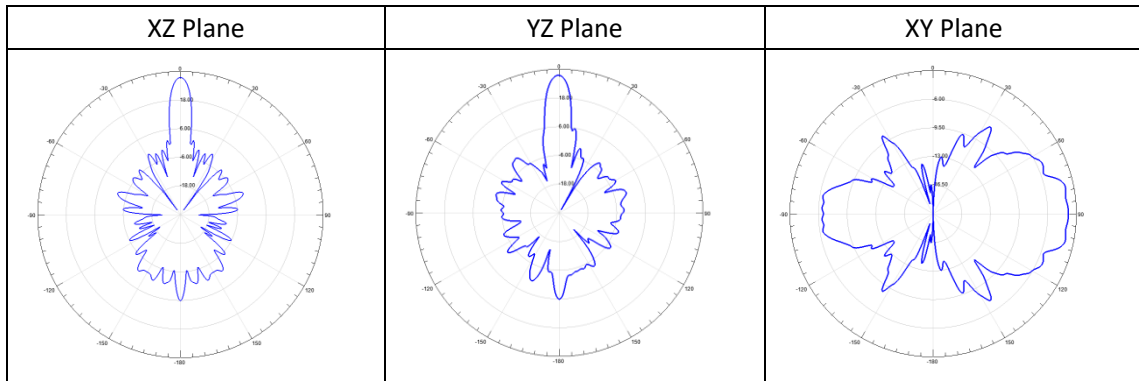
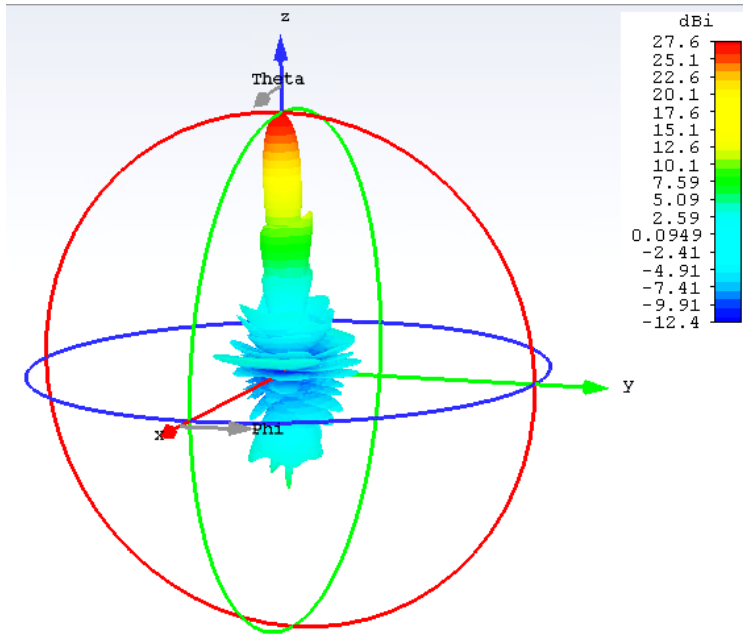
Gain table

Frequency @77GHz	xy (dbi)		xz (dbi)		yz (dbi)		eff. (db)
	peak	Avg	peak	Avg	peak	Avg	
	-3.4	-10.1	27.5	-6.3	27.5	-4.5	

Return Loss



3D radiation Pattern Diagram



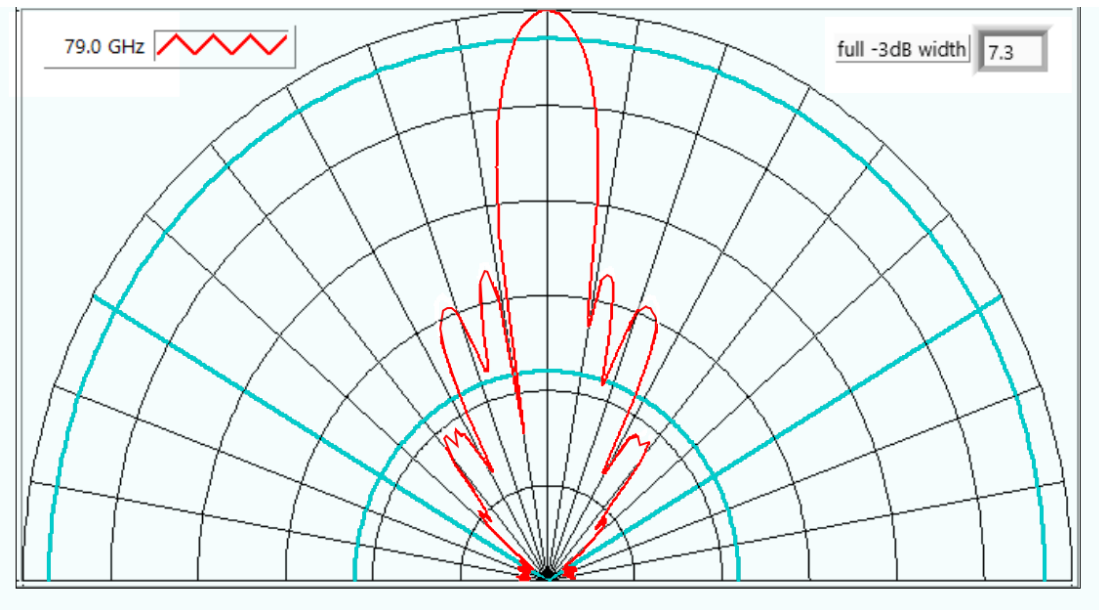
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Vertical polarization (with respect to the plane of rotation)

Scale division for signal strength 0, -3, -10, -20, -30, -38, -40, -50dB

Scale division for angles 10 degrees, -60° and 60° color marked



Horizontal polarization (with respect to the plane of rotation)

Scale division for signal strength 0, -3, -10, -20, -30, -38, -40, -50dB

Scale division for angles 10 degrees, -60° and 60° color marked

