

## DS-D2-F2A Data Sheet v1.0

XXXX Pol,2490-2690MHz

90° Horizontal Beamwidth,16.0dBi

E-Tilt,TDD: 2-12

1.4m 9-Port TDD Antenna with Integrated RCU

## Electrical Properties(BASTA 11.1)

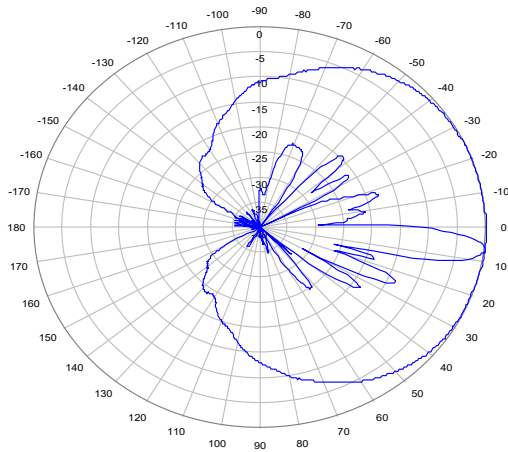
General Parameter	Frequency Band(MHz)	2490-2690(Y1)	
	Polarization(°)	±45	
	Electrical Downtilt (°)	2~12	
	Impedance (Ω)	50	
Calibration and Electrical Parameters	Amplitude Coupling (dB)	-26±2	
	Coupled Amplitude Variation (dB)	0.9	
	Coupled Phase Variation (°)	8	
	VSWR	< 1.5	
	Intraband Isolation (dB)	≥20(2-6°);≥25(7-12°)	
	Cross polar Isolation (dB)	≥21(2-6°);≥26(7-12°)	
	Input Power, Average (W)	250	
Radiation parameters	Single column Beam	Gain (dBi)	15.5±0.7
		Horizontal 3dB Beamwidth (°)	90±15
		Vertical 3dB Beam Width(°)	5.4±0.3
		Cross Polar Ratio at 0° (dB)	15
		Cross Polar Ratio Sector ±60° (dB)	6
		Front to Back Ratio at 180±30° (dB)	23
	Broadcast Beam	Horizontal 3dB Beamwidth (°)	65±10
		Gain (dBi)	16.2±0.5
		Vertical 3dB Beamwidth (°)	5.4±0.3
		Cross Polar Ratio at 0° (dB)	15
		Cross Polar Ratio Sector ±60°(dB)	8
		Front to Back Ratio at 180±30°(dB)	23
	Service Beam	Upper Sidelobe Suppression (dB)	15
		0° Service Beam Gain Over All Tilts(dBi)	20.5±0.5
		0° Service Beam Horizontal 3dB Beamwidth(°)	23±2
		0° Service Beam Sidelobe Suppression(dB)	10
		0° Service Beam Cross Polar Ratio at 0°(dB)	18
		0° Service Beam Front to Back Ratio at 180±30°(dB)	25
		±60° Service Beam Gain(dBi)	17.5±0.5
		±60° Service Beam Horizontal 3dB Beamwidth(°)	25±2
	±60° Service Beam Sidelobe Suppression(dB)	3	

Mechanical Specifications	
Antenna Dimensions (HxWxD) (mm)	1400 x 270 x 140
Packing Dimensions (HxWxD) (mm)	1615 x 340 x 220
Antenna Weight (kg)	15
Packed Weight (kg)	21.5
Connector	9 x 4.3-10 Female
Radome Material	Fiberglass
Wind Load at 150 km/h(N) (Front /Rear/Side)	550 /700/210
Maximum Wind Speed(km/h)	241
Diameter of Installation Pole(mm)	Φ50-Φ114
Operating Temperature Range(°C)	-40-+65
Lightning Protection	DC Ground
RET Type	Integrated RCU
RET Protocols	AISG 2.0/3GPP

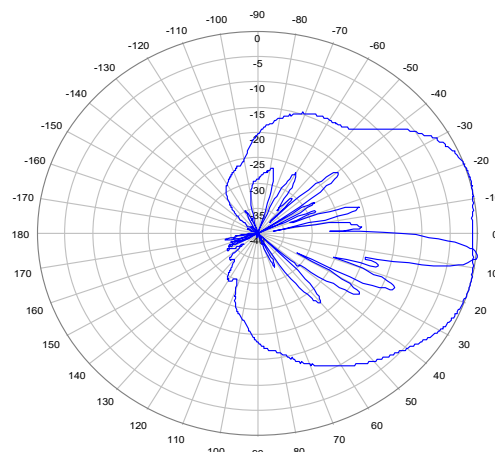


Pattern sample for reference

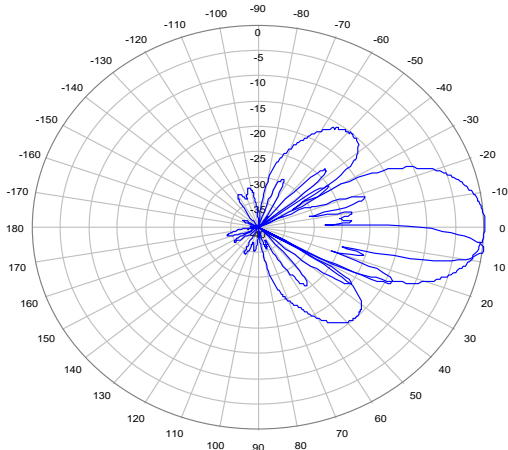
2490-2690Mhz Single Column Beam



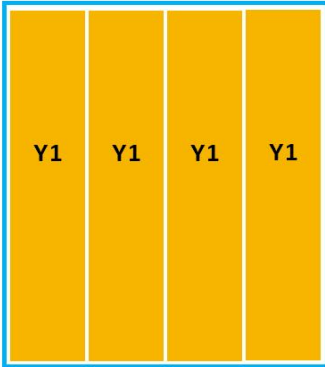
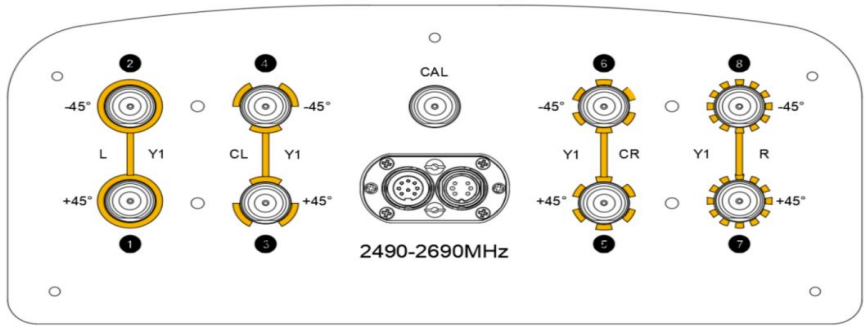
2490-2690Mhz BroadCast Beam



2490-2690Mhz 0° Sercive Beam



Layout of interface



Array ID	RF Connector	RET(S RET)	Frequency (MHz)	AISG RET UID
Y1	1-8	1	2490-2690	MKXXXXXXXXXXXXXXXXY1

\* For more information, please refer to the specification of RET.

Accessories

Item	Item	Weight	Mechanical Tilt Range	Quantity
Mounting Kit	MJM-022-1101A	5.5kg	0-10°	1