

TDD antenna

Model: EHS1T201A



EAHISON

ELECTRICAL SPECIFICATIONS

	Frequency Range (MHz)		Y1/Y2/Y3/Y4
			2500-2694
General Parameters	Polarization		$\pm 45^\circ$
	Electrical Downtilt (°)		2-12
	Electrical Downtilt accuracy (°)		± 1
Calibration and Electrical Parameters	Coupling factor between calibration port and each antenna port(dB)		-26 ± 2
	Max.amplitude tolerance from calibration port to input ports(dB)		≤ 1.0
	Max.phase tolerance from calibration port to input ports(°)		≤ 8
	Ports VSWR		≤ 1.5
	Impedance (Ω)		50
	Max Input Power (W)		300
	Co-polarization isolation between ports(dB)		≥ 25
	Cross-polarization isolation between ports(dB)		≥ 25
Radiation Parameters	Single Column Beam	Horizontal 3dB beam width(°)	65 ± 5
		Gain (dBi)	≥ 16
		Vertical 3dB beam width(°)	5 ± 2
		Cross polar ratio(0°)(dB)	≥ 15
		Cross polar ratio($\pm 60^\circ$)(dB)	≥ 8
		Front to back ratio(dB)	≥ 26
		Upper side lobe suppression (dB)	≤ -15
	Broadcast beam	Gain (dBi)	≥ 16
		SPR($\pm 32.5^\circ$)(%)	70 ± 15
		SPR($\pm 60^\circ$)(%)	≥ 85
		Vertical 3dB beam width(°)	5 ± 2
		Front to back ratio(dB)	≥ 26
		Upper side lobe suppression (dB)	≤ -15
	Service beam	0° direct beam gain(dBi)	≥ 21
		0° direct beam horizontal 3dB beam width(°)	≤ 30
		0° direct beam sidelobe suppression(dB)	≤ -15
		0° direct beam cross polar ratio(axial)(dB)	≥ 17
		0° direct beam front to back ratio(dB)	≥ 26
		$\pm 30^\circ$ direct beam gain(dBi)	≥ 19

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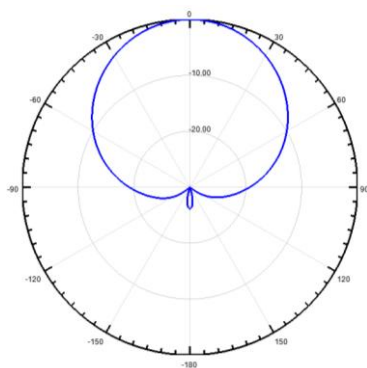
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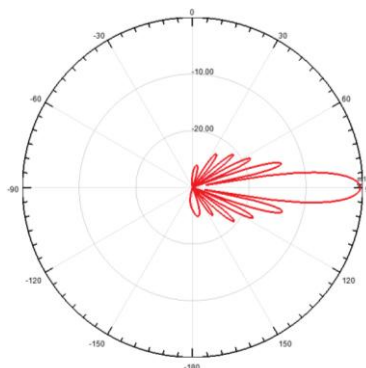
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MECHANICAL SPECIFICATIONS

Connector(s)	2×(MQ4+MQ5)Connector-Male
Connector position	Bottom
Antenna Dimensions (mm)	1400×320×140
Packing Dimensions (mm)	/
Mechanical Downtilt kits (°)	0-12
Radome Color	light gray
Radome Material	Fiberglass
Antenna weight (kg)	≤19
Packing weight (kg)	/
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	/
Operating temperature (°C)	-40~+60
Maximum Wind Speed(km/h)	200
Mounting Pipe Diameter (mm)	Φ50~Φ115
RET type	Replaceable Integrated RET



H Pattern



E Pattern

