

Cylindrical antenna (3 sector)

Model: EHS1T103A



EAHISON

ELECTRICAL SPECIFICATIONS

Frequency Range (MHz)	R1/R2/R3	Y1/Y2/Y3/Y4/Y5/Y6
	690-960	1710-2690
Polarization	$\pm 45^\circ$	
Gain over all tilts (dBi)	≥ 13	≥ 16
Horizontal 3dB beam width($^\circ$)	65	65
Vertical 3dB beam width($^\circ$)	$\leq 12 \pm 1$	$\leq 7 \pm 1$
Front to back ratio(dB)	≥ 25	≥ 25
Cross polar ratio(0°)(dB)	≥ 15	≥ 15
Upper side lobe suppression (dB)	≥ 15	≥ 15
Electrical Downtilt ($^\circ$)	2-12	2-12
Electrical Downtilt accuracy ($^\circ$)	± 1	
Ports VSWR	≤ 1.5	
Isolation: intra-system (dB)	≥ 25	
Isolation: inter-system (dB)	≥ 25	
Intermodulation IM3 ($2 \times 43\text{dBm}$)	$\leq -150\text{dBc}$	
Impedance (Ω)	50	
Max Input Power (W)	800	

MECHANICAL SPECIFICATIONS

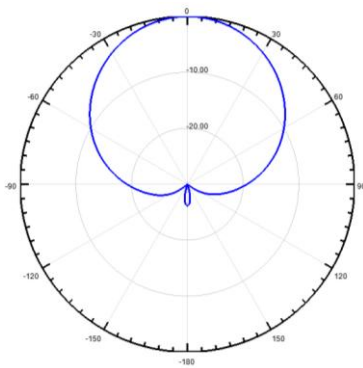
Connector(s)	18 $\times$ 4.3-10 female
Connector position	Bottom
Antenna Dimensions (mm)	1600 $\times$ Φ 500
Packing Dimensions (mm)	/
Mechanical Downtilt kits ($^\circ$)	0-12
Radome Color	light gray
Radome Material	Fiberglass
Antenna weight (kg)	≤ 50
Packing weight (kg)	/
Wind load (N,at 150km/h) Frontal/Lateral/Rearside	/
Operating temperature ($^\circ\text{C}$)	-40 $\sim$ +60
Maximum Wind Speed(km/h)	200
Mounting Pipe Diameter (mm)	Φ 50 $\sim$ Φ 115
RET type	Replaceable Integrated RET

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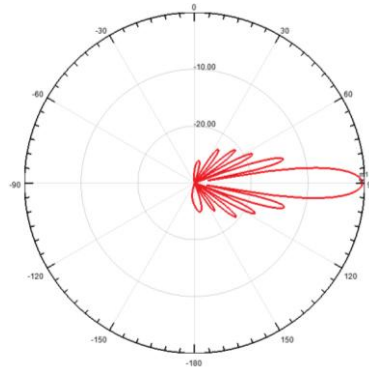
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EAHiSON



H Pattern



E Pattern

