

Product features


- Frequency: 860-930MHz
- Suits both 868MHz and 915 MHz bands
- Vertically polarized
- Max Gain: 5.8 dBi
- Omnidirectional
- High efficiency



Specifications


Electrical Specifications	
Frequency Range (MHz)	860-930
Tape width (MHz)	70
Input Impedence (Ω)	50
V.S.W.R	≤ 1.5
Gain (dBi)	5.8 ± 0.3
Polarization Type	Vertical polarization
Radiation Direction	Omni
Half power corner($^{\circ}$)	H 360° /E 8°
Max Input Power (w)	100

Mechanical Specifications	
Antenna size (mm)	$\Phi 20 \times 500$
Antenna cover material	Fiber glass
Connect Type	N-J
Operating Temperature	$-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Storing Temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Mounting	U bracket installation
Lightning protection	DC grounding
Wind resistance	60m/s
Pole	$\phi 25 \sim \phi 50$ mm
Weight (g)	340

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Efficiency vs gain

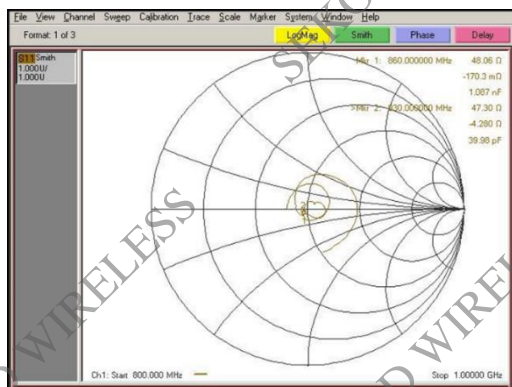
Frequency (MHz)	Efficiency (%)
860.0	78.82
865.0	78.24
870.0	79.04
875.0	80.73
880.0	81.08
885.0	79.49
890.0	81.86
895.0	81.17
900.0	77.85
905.0	78.74
910.0	78.27
915.0	76.38
920.0	76.47
925.0	75.19
930.0	70.86

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Return Loss




Smith Chart:



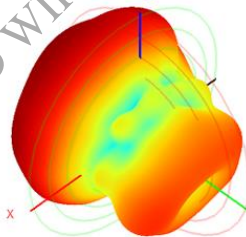
VSWR



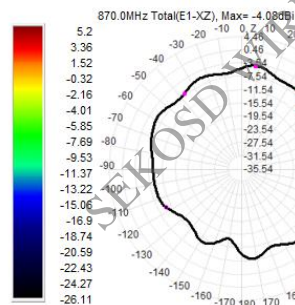
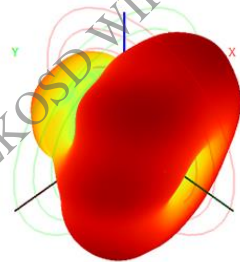
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Antenna pattern
870 MHz

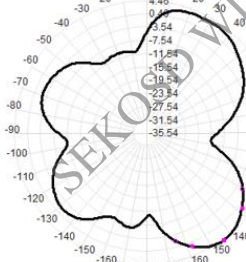
870.0MHz H+V, Eff: 79.0%



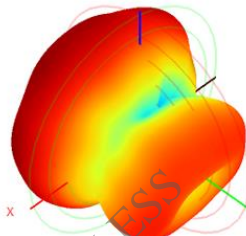
Back View



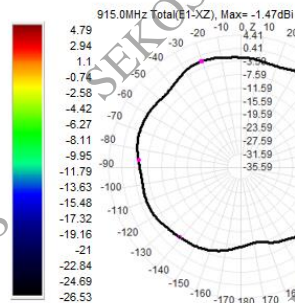
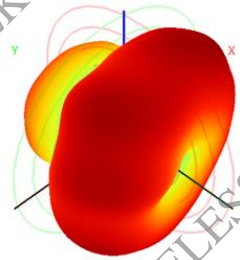
870.0MHz Total (E2-YZ), Max = 4.46dBi


915 MHz

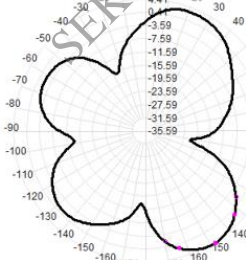
915.0MHz H+V, Eff: 76.4%




Back View



915.0MHz Total (E2-YZ), Max = 4.41dBi



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