

Product features


- Frequency: 860-930MHz
- Suits both 868MHz and 915 MHz bands
- Vertically polarized
- Max Gain: 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)	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)	$\Phi 20 \times 1100$
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)	520

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Efficiency vs gain

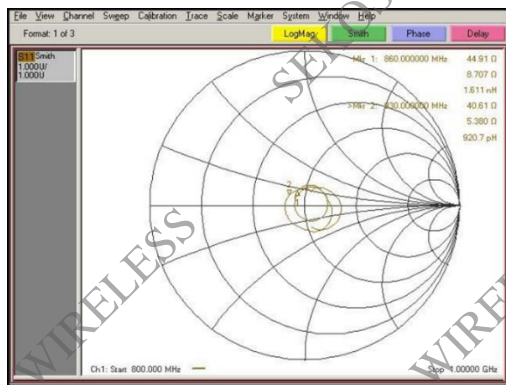
Frequency (MHz)	Efficiency (%)
860.0	81.04
865.0	81.89
870.0	82.76
875.0	83.65
880.0	83.87
885.0	79.95
890.0	80.36
895.0	80.79
900.0	76.77
905.0	76.22
910.0	77.84
915.0	77.12
920.0	77.68
925.0	76.86
930.0	75.58

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Return Loss




Smith Chart:



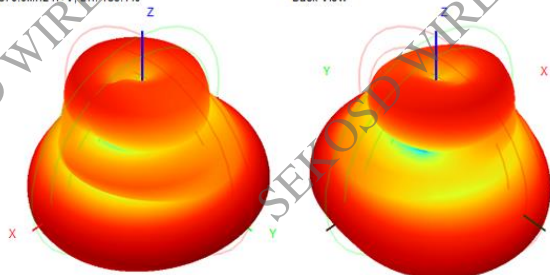
VSWR



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Antenna pattern
870 MHz

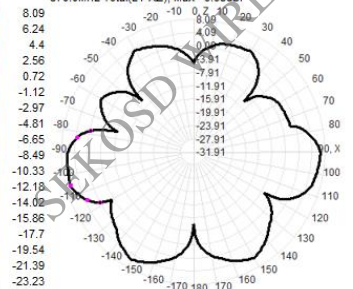
870.0MHz H+V, Eff. 183.1%



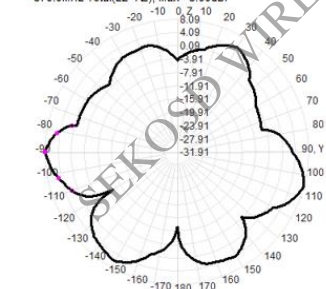
Back View



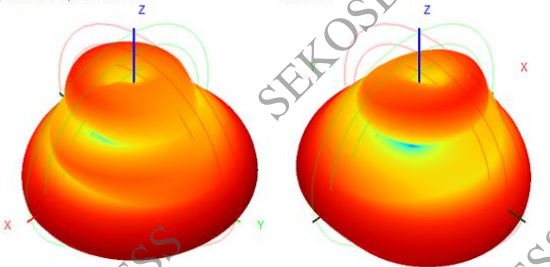
870.0MHz Total(E1-XZ), Max= 6.68dBi



870.0MHz Total(E2-YZ), Max= 8.00dBi


915 MHz

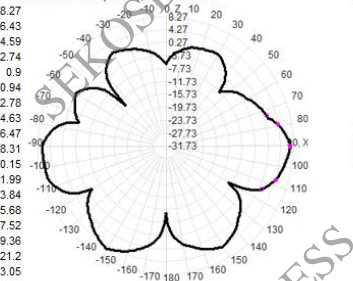
878.0MHz H+V, Eff. 179.2%



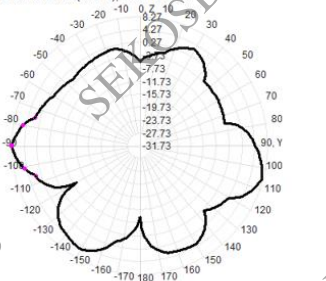
Back View




878.0MHz Total(E1-XZ), Max= 7.06dBi



878.0MHz Total(E2-YZ), Max= 8.23dBi



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