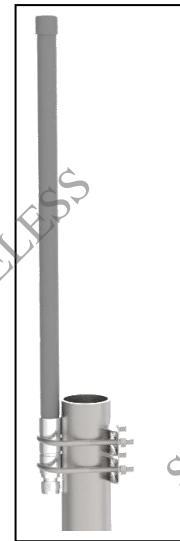


### Product features


- Frequency: 860-930MHz
- Suits both 868MHz and 915 MHz bands
- Vertically polarized
- Max Gain: 3 dBi
- Omnidirectional
- High efficiency



### Specifications


Electrical Specifications	
Frequency Range (MHz)	860-930
Tape width (MHz)	70
Input Impedence ( $\Omega$ )	50
V.S.W.R	$\leq 1.5$
Gain (dBi)	$3 \pm 0.3$
Polarization Type	Vertical polarization
Radiation Direction	Omni
Half power corner( $^{\circ}$ )	H 360 $^{\circ}$ /E 8 $^{\circ}$
Max Input Power (w)	100

Mechanical Specifications	
Antenna size (mm)	$\Phi 20 \times 300$
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)	300

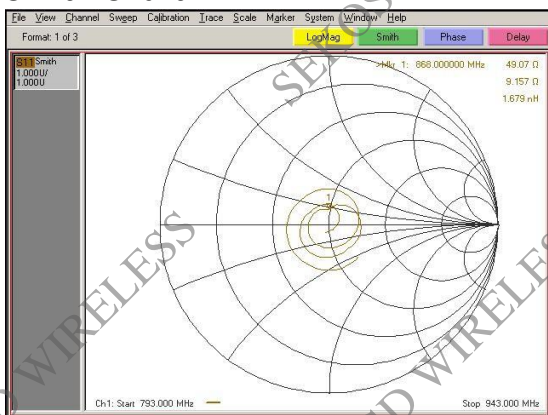
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## Efficiency vs gain

Frequency (MHz)	Efficiency (%)
<b>860.0</b>	<b>75.52</b>
<b>865.0</b>	<b>75.69</b>
<b>870.0</b>	<b>76.83</b>
<b>875.0</b>	<b>78.49</b>
<b>880.0</b>	<b>78.94</b>
<b>885.0</b>	<b>78.13</b>
<b>890.0</b>	<b>80.06</b>
<b>895.0</b>	<b>79.62</b>
<b>900.0</b>	<b>78.62</b>
<b>905.0</b>	<b>80.06</b>
<b>910.0</b>	<b>80.36</b>
<b>915.0</b>	<b>80.23</b>
<b>920.0</b>	<b>80.91</b>
<b>925.0</b>	<b>80.00</b>
<b>930.0</b>	<b>77.65</b>

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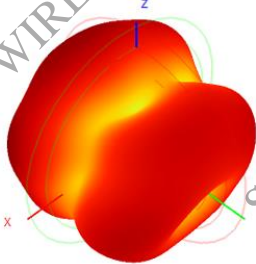
**Return Loss:**

**Smith Chart:**

**VSWR**

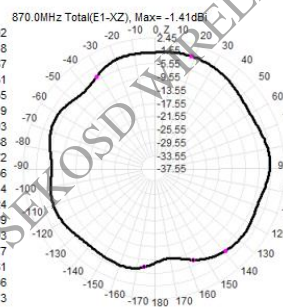
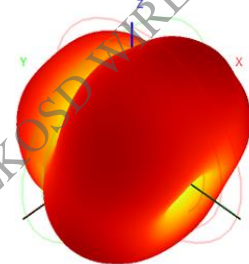

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**Antenna pattern**
**870 MHz**

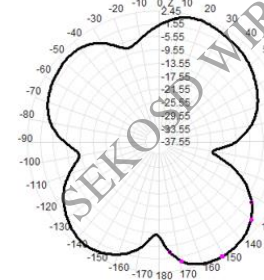
870.0MHz H+V, Eff: 76.8%



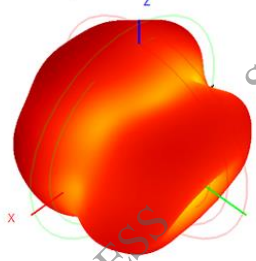
Back View



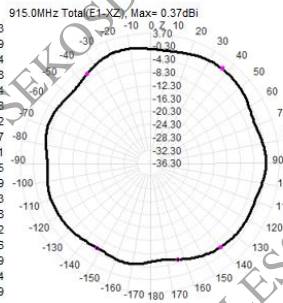
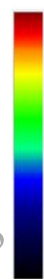
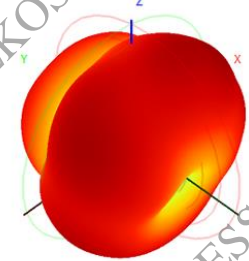
870.0MHz Total(E2-YZ), Max= 2.45dBi


**915 MHz**

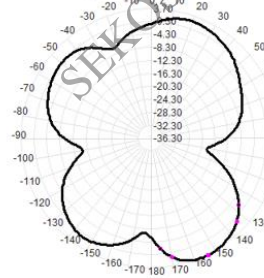
915.0MHz H+V, Eff: 80.2%



Back View



915.0MHz Total(E2-YZ), Max= 3.70dBi


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