

**Part No**            **02590**

**Discone Base Station Antenna    300W    125-400MHz**

The 02590 Discone Antenna is a broad frequency antenna suited to applications across the frequency range 125-400 MHz. All radiation patterns have been tested and verified on an antenna test range. Its stable radiation pattern across band allows for accurate EMI/RFI testing. Robust construction of both the central feed section and matching radials makes for a reliable and attractive antenna.

### Applications

Broad band Transmit and Receive applications.  
Coverage of numerous commercial frequency bands.

### Tuning

Factory tuned no tuning required

### Features

- ✓ Wide bandwidth.
- ✓ Rugged construction
- ✓ Removable Radiating elements.
- ✓ High Power

### Optional Mountings

- 02811S** Bracket Parallel S/S 304EP
- 02813** Parallel Bracket Heavy duty clamp
- 02815** Universal bracket 50/20 S/S

### Specifications

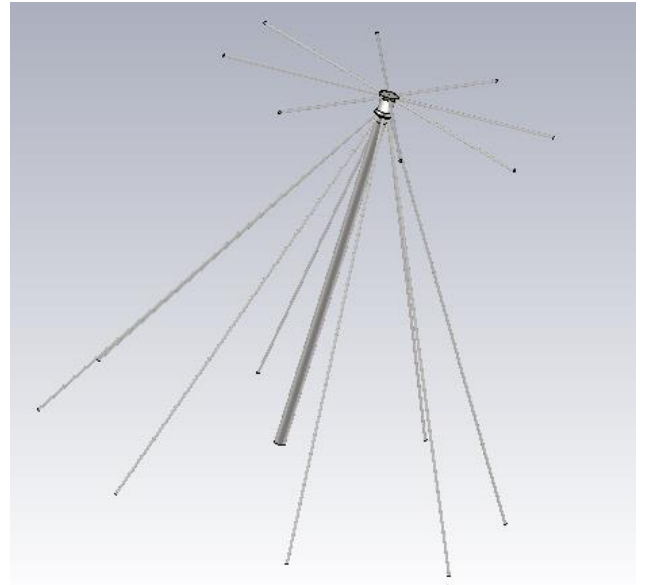
<b>Frequency range:</b>	125-400 MHz.
<b>Gain:</b>	See Table page 2.
<b>VSWR:</b>	2.0:1 125-400 MHz.
<b>Impedance:</b>	50 Ohms nominal
<b>Power Rating:</b>	300 Watts Average power
<b>Polarisation:</b>	Vertical
<b>Radiation:</b>	Omnidirectional
<b>Cable:</b>	RG213
<b>Termination:</b>	N female
<b>Mounting tube:</b>	32mmDia, 1100mm long
<b>Base Materials:</b>	Delrin hub, Aluminium radials and mounting tube.
<b>Antenna Length:</b>	0.69 Metres
<b>Antenna width:</b>	0.762 Metres Across cone base.
<b>Antenna Net Weight:</b>	1.75kg
<b>Wind load @ 160 KPH:</b>	(0.0791sqm) 9.61kg/94.241N

### Packaging

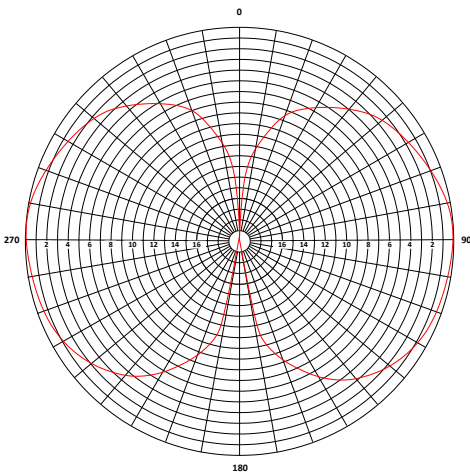
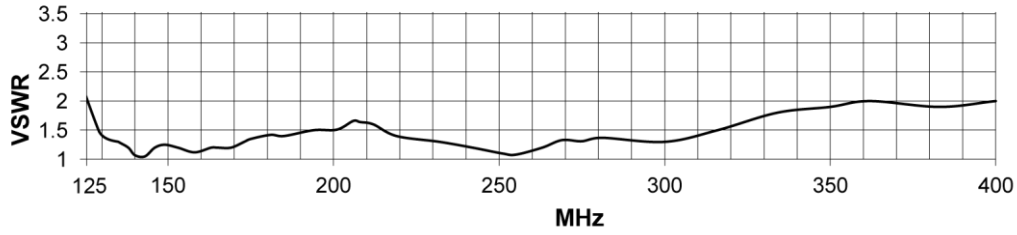
Cardboard Tube; 1120 (L) x 80 (D) mm, 1 antenna per tube, **GW:** 3.25 kg

### Warranty

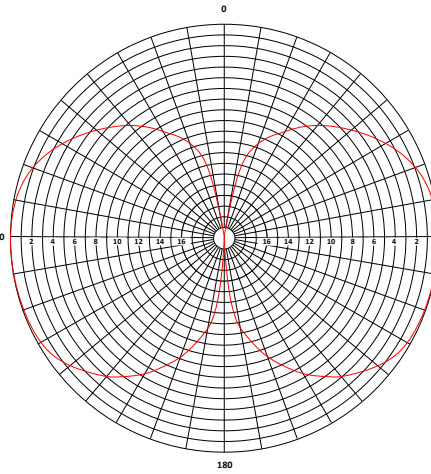
3 years (Please refer to [Benelec Terms & Conditions](#))



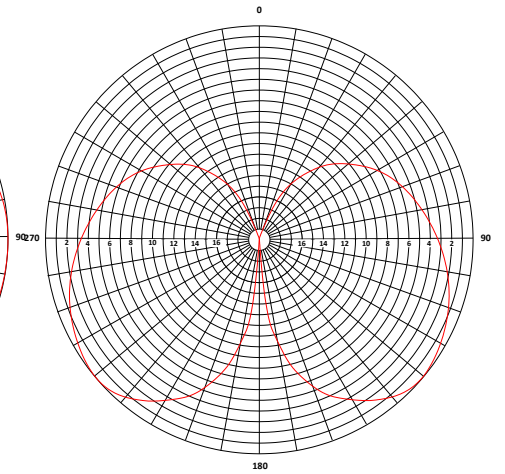
Frequency (MHz)	^Gain (dB)	Vertical Beamwidth	Horizontal Beamwidth
125 - 400	See below	See below	See below
125	0	85°	Omni
200	0	85°	
300	-3	60°	
400	-3	See Pattern	
^Gain reference to ½ Wave Dipole Antenna			



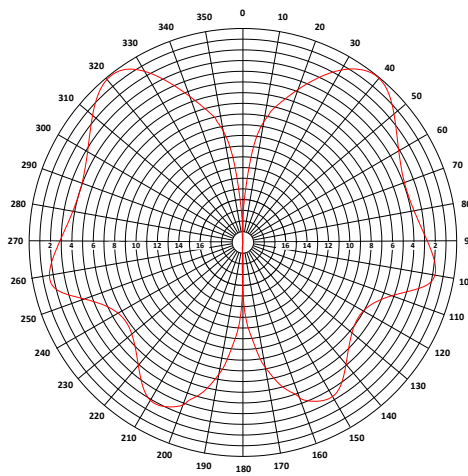
100MHz E Plane



200MHz E Plane



300MHz E Plane



400MHz E Plane