

Model No 02674 Broad Band Discone Antenna NATO STOCK # 5985-66-157-5307

The 02674 is a receive Antenna, for use across the 65-1300MHz Radio Band. It can also be used as a transmit antenna in selected bands, as outlined in the table below. It is manufactured with removable Stainless Steel Radials, making it suitable to applications where rapid deployment is required. It can also be used satisfactorily for permanent installation.

Applications

Radio reception in all Commercial and Military Radio Bands.

Tuning

Factory Tuned, no further tuning required.

Features

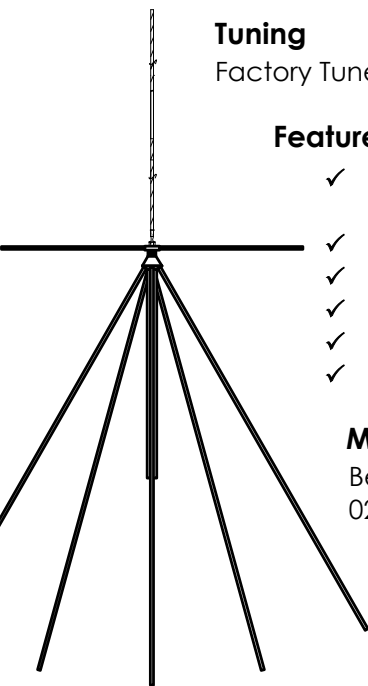
- ✓ 304 Stainless Steel radiators, hub.
- ✓ Delrin Insulator.
- ✓ Stainless Steel Radials.
- ✓ N Female Connector.
- ✓ 16 radiators - 8mm diameter.
- ✓ 42.16mm mounting tube.

Mounting Options

Benelec Mounting Clamp:
02814 or 02815

SPECIAL NOTE: It is common within the industry to rate discones across bandwidths in excess of the actual limitations of the radiation patterns. Although broad band in nature, discones do have some limitations.

The 02674 antenna will afford a quarter wave pattern at 65 MHz but with a substantial reduction in gain. The radiation patterns of this type of discone will also change at the higher end of the band. At 1300MHz the antenna will offer low angle radiation with severe multiple lobeing, this is equivalent to low gain on and above the horizon. For optimum performance across the band 65-1300MHz, it is recommended that the band required be covered with three separate antennas in our range, Models 02210, 02590, & 02677.



Specifications

| | |
|-----------------------------|---------------------|
| Frequency Range: | 65-1300 MHz |
| Gain: | 0dBD @ 140MHz |
| VSWR: | 2.0:1 Max |
| Impedance: | 50 Ω |
| Polarization: | Vertical |
| Radiation: | Omni Directional |
| Termination: | N Female |
| Mounting Tube: | Min 50mm Dia x 2.0m |
| Antenna Length: | 2.087m |
| Weight: | 4.1kg |
| Projected Area: | 0.2748 SQM |
| Wind Load @ 160 KPH: | 30.33 Kg |

| Frequency MHz | Gain (dBD) | Tuned Bandwidth | Operating VSWR | Input Impedance | Vertical Beamwidth | Horizontal Beamwidth |
|---------------|------------|-----------------|----------------|-------------------|--------------------|----------------------|
| 65 - 1300 | See Below | 85-230 MHz | 2.0:1 Max | 50 ohms (Nominal) | See Below | See Below |
| | | 230-360 MHz | 2.5:1 Max | | | |
| | | 360-420 MHz | 3.0:1 Max | | | |
| | | 420-1170 MHz | 2.0:1 Max | | | |
| | | 1170-1300 MHz | 2.5:1 Max | | | |
| 60 | *-1.00 | | | | 85 deg | Omni |
| 140 | *0.00 | | | | 85 deg | Omni |
| 260 | *-3.00 | | | | 60 deg | Omni |
| 360 | *-3.00 | | | | See Pattern | Omni |
| 560 | *-10.00 | | | | See Pattern | Omni |
| 800 | *-9.00 | | | | See Pattern | Omni |
| 1000 | *-11.00 | | | | See Pattern | Omni |
| 1300 | *-15.00 | | | | See Pattern | Omni |

* Gain is measured on the horizon, for further detail see relevant radiation patterns See Page 2

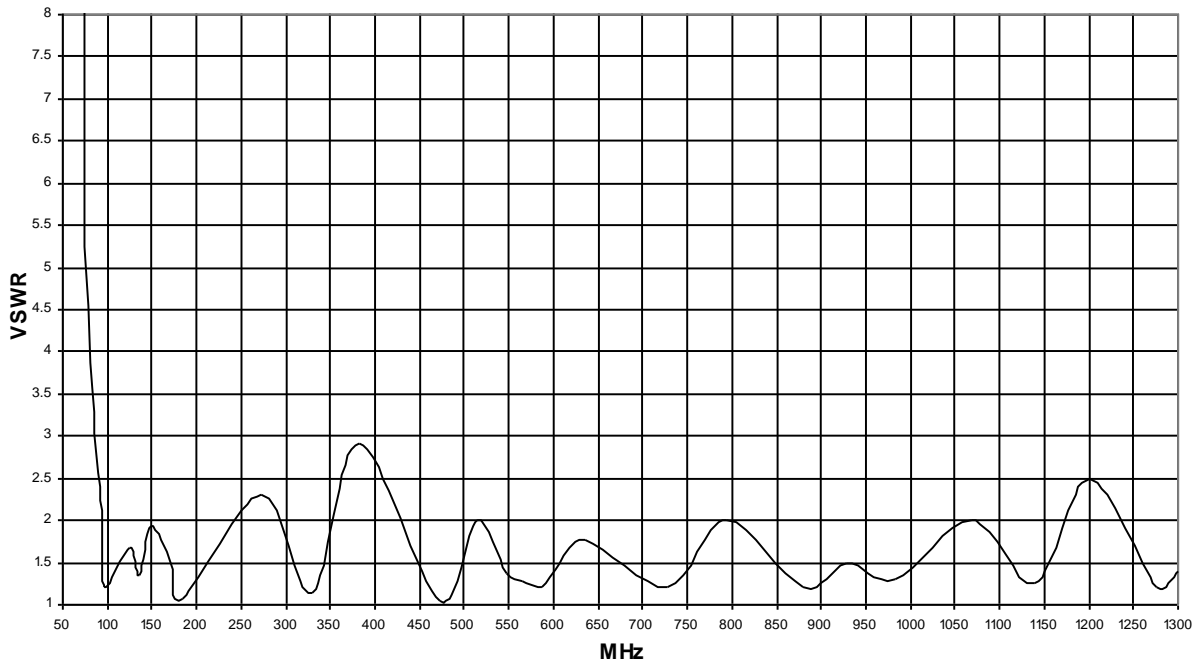
Packaging

Cardboard Tube: 1550(L) x 80(Dia) mm
1 antenna per tube, Gross Weight: 4.40 kg

Warranty

3 years (Please refer to Benelec Standard Warranty Terms and Conditions)

VSWR



Radiation Pattern

