

02674 - BROADBAND DISCONE ANTENNA

NATO STOCK # 5985-66-157-5307.

The 02674 is a receive Antenna, for use across the 25-1300MHz 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.
- 304 Stainless Steel radiators, hub.
- Delrin Insulator
- Stainless Steel Radials.
- N Female Connector
- 16 radiators - 8mm diameter.
- 42.16mm mounting tube.

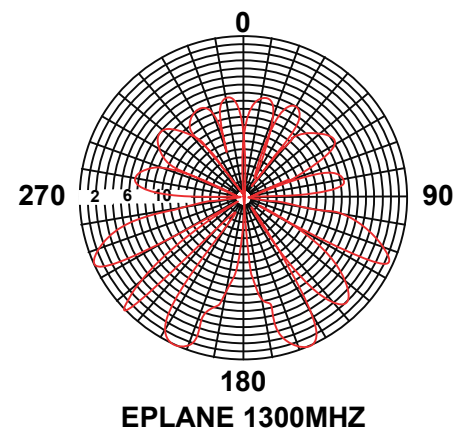
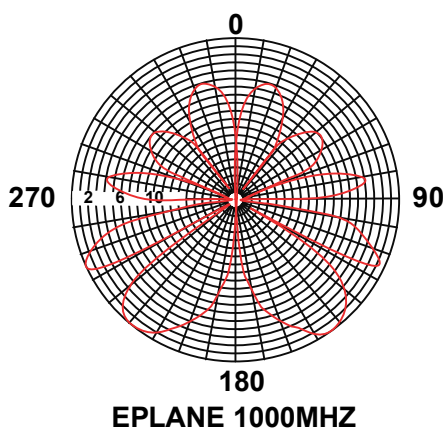
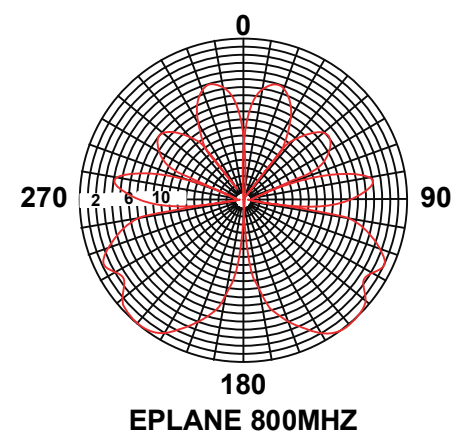
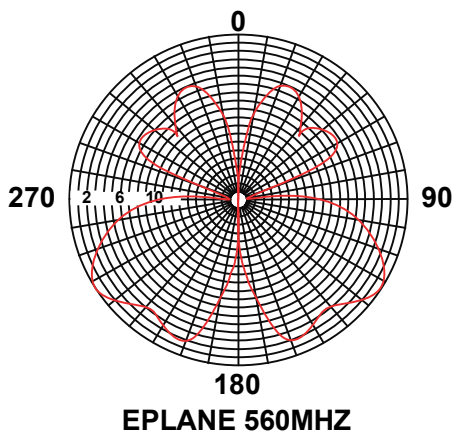
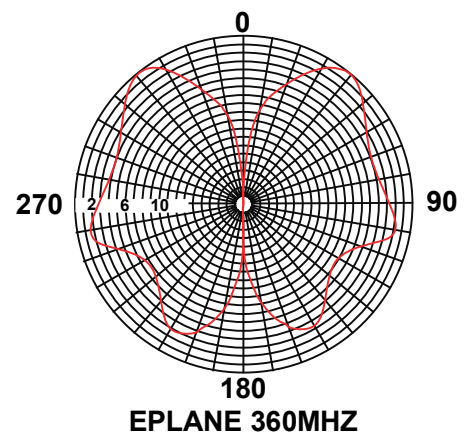
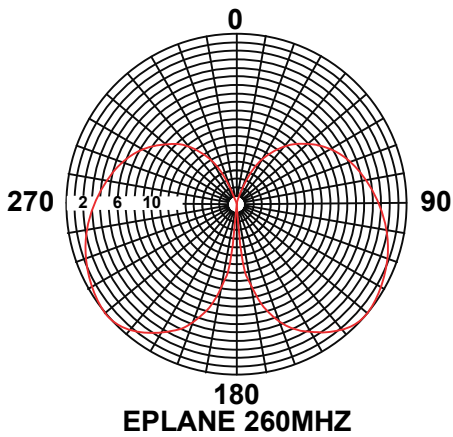
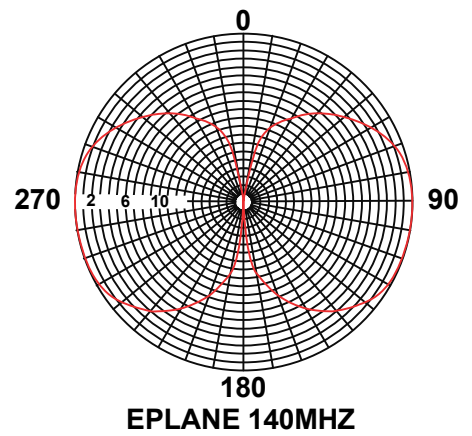
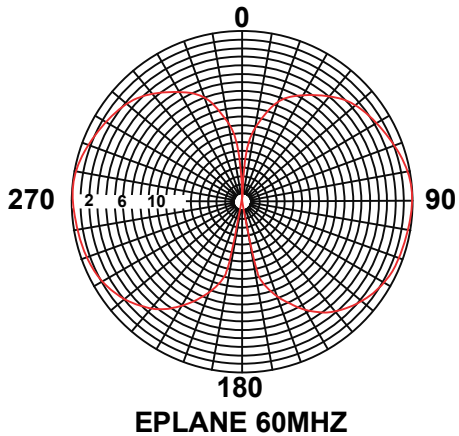
SPECIAL NOTE: It is common within the industry to rate discones across bandwidths in excess of the actual limitations of the radiation patterns. Although broad band in nature, discones do have some limitations.

The 02674 antenna will afford a quarter wave pattern at 25 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 lobing, this is equivalent to low gain on and above the horizon. For optimum performance across the band 25-1300MHz, it is recommended that the band required be covered with three separate antennas in our range, Models 02210, 02590, & 02677.

Model	Frequency MHz	Gain (dBD)	Tuned Bandwidth	Operating VSWR	Input Impedance	Vertical Beamwidth	Horizontal Beamwidth
02674	25-1300mhz	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 MHz	*-1.00		85 deg		Omni	
	140MHz	*0.00		85 deg		Omni	
	260 MHz	*-3.00		60 deg		Omni	
	360 MHz	*-3.00		See Pattern		Omni	
	560 MHz	*-10.00		See Pattern		Omni	
	800 MHz	*-9.00		See Pattern		Omni	
	1000 MHz	*-11.00		See Pattern		Omni	
1300 MHz	*-15.00		See Pattern	Omni			
* Gain is measured on the horizon, for further detail see relevant radiation patterns See Page 2							

Mechanical

Model	Construction	Length (m)	Width (m)	Weight (kg)	Termination	Suggested Mounting Clamp	Projected Area	Wind Loading @ 160 KPH
02674	S/Steel, Delrin	2.087	#1.15	4.1	N Female	02815 02814	0.2748 SQM	30.33 KG
#Across the Cone Base								



VSWR PLOT

