

02675 – 60 to 1000 MHz Broad Band Discone Antenna

Description

The 02675 is an economy version receive only Discone Antenna, operating across the 60 -1000 MHz Radio Band. The Lightweight construction makes it ideal for simple installations, and at the same time affords a low wind loading resistance. 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.



Application

- Radio reception in all Commercial Radio Bands.

Construction

- Chromed brass body and radiator hub.
- Delrin Insulator.
- Stainless Steel Radials.
- UHF Female Connector.

Specifications

Electrical

Model	Frequency MHz	Gain (dBD)	Tuned Bandwidth	Operating VSWR	Input Impedance	Vertical Beamwidth	Horizontal Beamwidth
02675	60 - 1000	See Below	85-250 MHz	3.0:1 Max	50 ohms (Nominal)	See Below	See Below
			85-360 MHz	4.0:1 Max			
			450-800 MHz	3.5:1 Max			
			800-960 MHz	3.5:1 Max			
			890-960 MHz	2.0:1Max			
	60 MHz	0.00		75°		Omni	
	100 MHz	0.00		68°		Omni	
	200 MHz	*-4.00		45°		Omni	
	400 MHz	*-16.00		See Pattern		Omni	
	800 MHz	*-11.00		See Pattern		Omni	

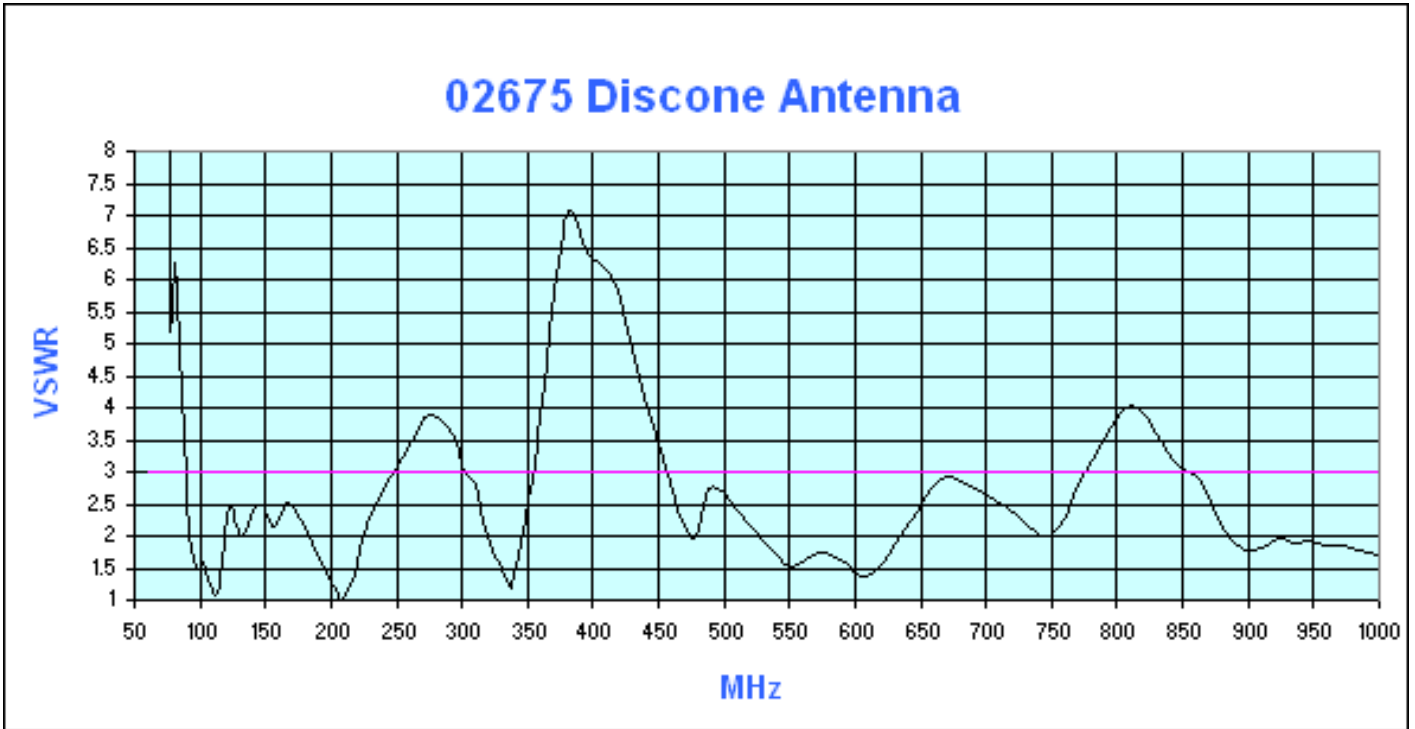
* Gain is measured on the Horizon, for further detail see relevant Radiation Patterns.

Mechanical

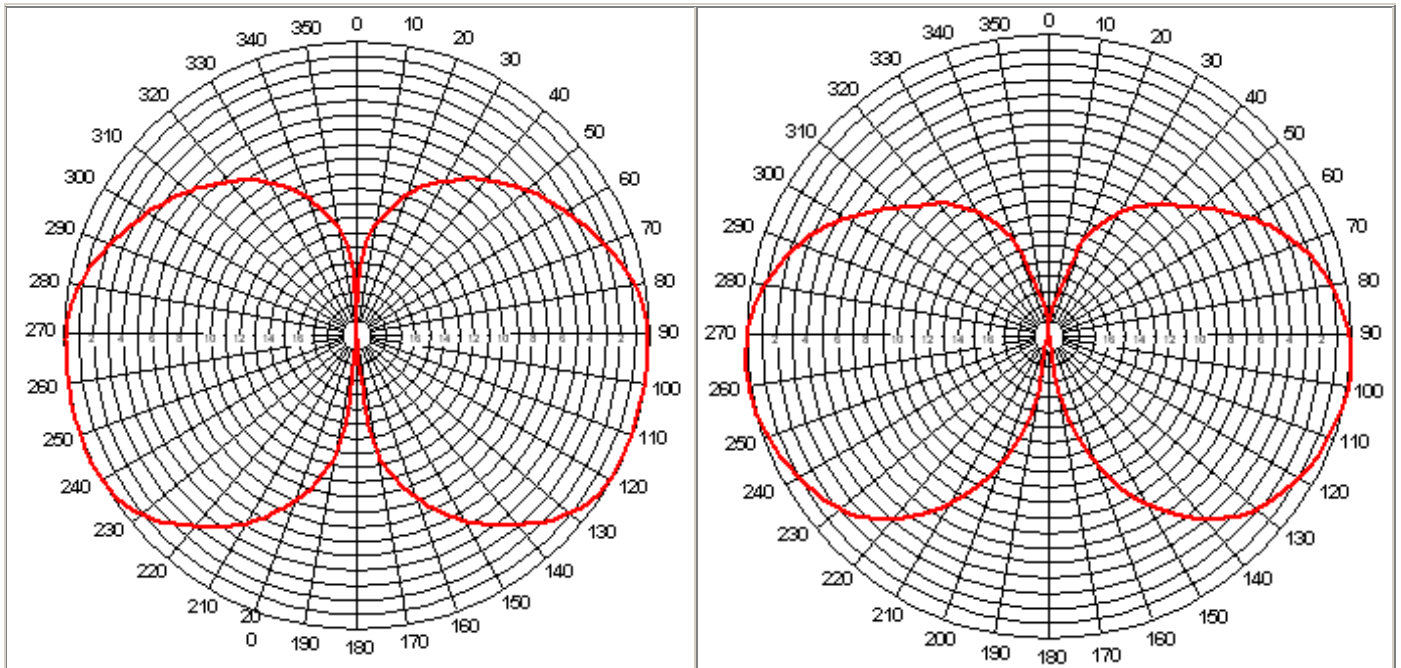
Model	Construction	Length (m)	Width (m)	Weight (kg)	Termination	Projected Area	Wind Loading @160 KPH
02675	S/Steel, Chromed, Brass, Delrin	0.95	^1.15	1.3	UHF Female	0.01469 Square M	1.62 Kg

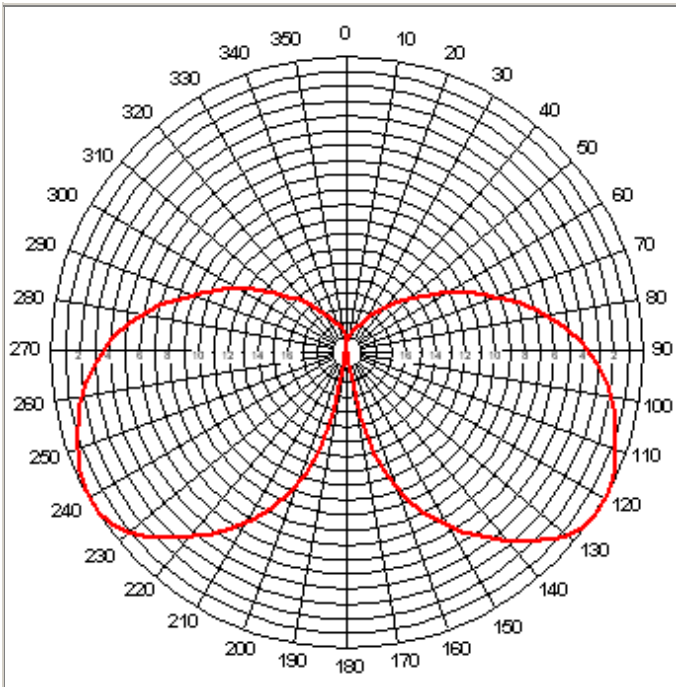
^ Across the Cone Base

VSWR

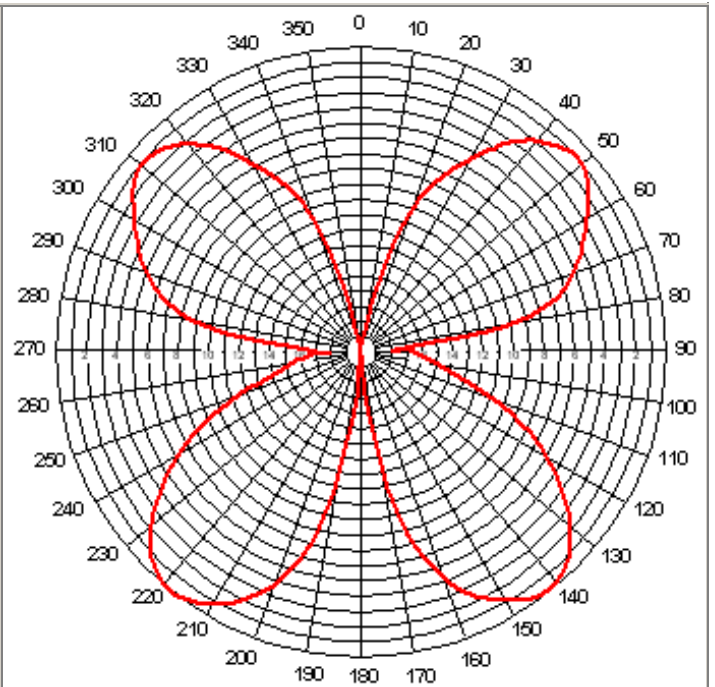


Radiation Pattern

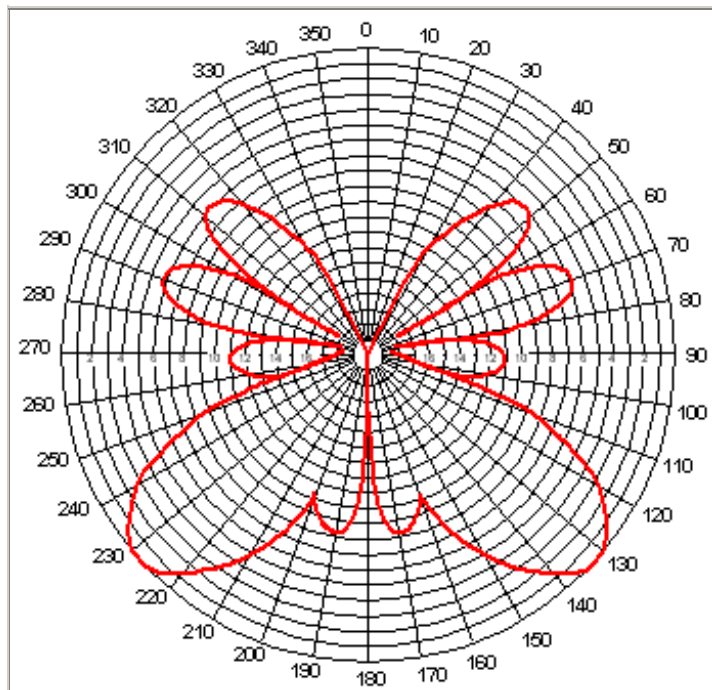




3 DB E Plane Beamwidth: 45 Deg
Frequency: 200 MHz
Gain: *-4.0 dB (*Gain on Horizon) [Dwg 802][Rev]



3 DB E Plane Beamwidth:
Frequency: 400 MHz
Gain: *-16.0 dB [Dwg 803][Rev]



3 DB E Plane Beamwidth:
Frequency: 800 MHz
Gain: *-11.0 dB *Gain on Horizon [Dwg 804][Rev]