

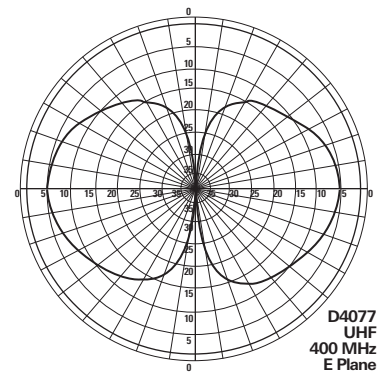
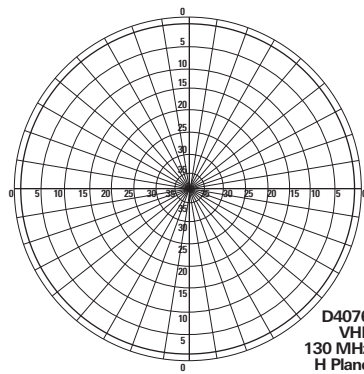
## D4000 Series: ATC Muldipol Antennas



The MULTIPOL™ Multiple Dipole Collinear Array concept has been specifically developed by TACO for ground-air-ground, air traffic control and associated vehicular and base communications applications.

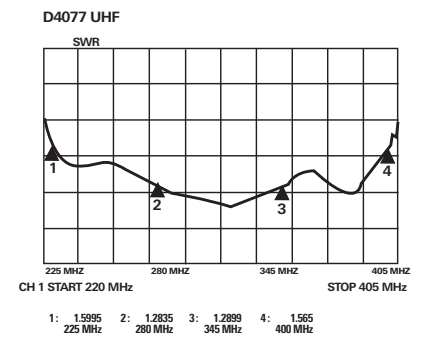
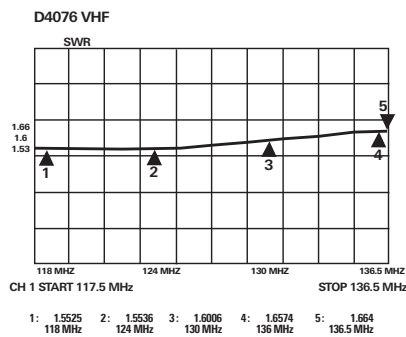
The MULTIPOL™ has a high degree of isolation between elements within a closely spaced array. The result is a small, rugged, easy to install antenna. A minimum of 30 dB isolation is realized between any two antenna elements in every MULTIPOL™ model. The low profile of this antenna plus the resulting decrease in the number of antennas required at any tower site also gives a much improved radiation pattern coverage.

### ANTENNA PATTERNS:



### FEATURES:

- Rugged lightweight construction
- Transportable and compact
- Combination of UHF and VHF
- High isolation between antenna elements
- Fibreglass Base (Metallic Base optional - see D5000 series)
- No DC Grounded Dipoles (DC Ground optional - see D5000 series)



TACO Antenna's ongoing policy of continuing development may result in specification changes to its products.

### US AND INTERNATIONAL SALES AGENT

#### TACO Antenna Sales Rep

Tel: 717.975.0885  
 Toll Free: 866.975.4433  
 Fax: 717.763.0469  
 Email: sales@tacoantenna.com  
 Web Site: www.tacoantenna.com

### CANADIAN SALES OFFICE

#### TACO Antenna

*A division of Wade Antenna, Inc.*  
 29 Sharp Road,  
 Brantford, Ontario, N3T 5L8, Canada  
 Tel: 519.756.7157  
 Fax: 519.756.5056  
 cansales@tacoantenna.com

# D4000 Antenna Specifications



## ELECTRICAL:

MODEL(S)	D4061A1	D4062A	D4071	D4072	D4073	D4074	D4076	D4077	D4078
Frequency Range (MHz)	V 118-136	U 225-400	U 225-400	V 118-136	U 225-400	U 225-400	V 118-136	U 225-400	U 225-400
Gain (dBic) +0dB/-1dB	45	45	20	20	20	20	20	20	20
Number of Outputs	1	1	3	2	2	2	1	1	3
Number of Elements	2x V	2x U	U/V/U	V/V	U/V	U/U	V	U	U/U/U
VSWR:									
Max	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Typical	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
HPBW:									
Horz.	360	360	360	360	360	360	360	360	360
Vert.	40	40	75	75	75	75	75	75	75
Polarization	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
1st Sidelobe Suppression	13 dB	13 dB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cross Pol. Suppression	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB	20 dB
Isolation	N/A	N/A	> 30 dB	>30 dB	>30 dB	>30 dB	N/A	N/A	>30 dB
Impedance	50	50	50	50	50	50	50	50	50
Std. Connector (female)	N	N	N	N	N	N	N	N	N
Max. Input Power	600W	500W	250W	350W	250W	250W	350W	250W	250W
Operating Temperature (°F)	-40 to +158	-40 to +158	-40 to +158	-40 to +158	-40 to +158	-40 to +158	-40 to +158	-40 to +158	-40 to +158
DC Ground	NO	NO	NO	NO	NO	NO	NO	NO	NO

Rain, salt-fog, sand, dust and fungus to MIL-STD. 810F  
Temperature, barometric pressure and humidity to MIL-STD. 210C

## MECHANICAL:

MODEL(S)	D4061A1	D4062A	D4071	D4072	D4073	D4074	D4076	D4077	D4078
Overall Length (in.)	121.5	69.5	111.5	153.0	85.0	85.0	55.5	30.5	121.5
Antenna Weight	19.0 lbs	13.5 lbs	17.0 lbs	17.0 lbs	12.0 lbs	12.0 lbs	6.0 lbs	5.0 lbs	17.0 lbs
* Total Shipping weight	23.5 lbs	15.0 lbs	19.0 lbs	22.0 lbs	14.0 lbs	14.0 lbs	10.0 lbs	8.0 lbs	19.0 lbs
<b>Mounting Options</b>									
Type	Mast	Mast	Mast	Mast	Mast	Mast	Mast	Mast	Mast
Mast Size (O.D.)	2.875"	1.66" or 2.875"	2.875"	2.875"	2.875"	2.875"	1.66" or 2.875"	1.66" or 2.875"	2.875"

\*Weights are approximate values

## WIND LOADING:

MODEL(S)	D4061A1	D4062A	D4071	D4072	D4073	D4074	D4076	D4077	D4078
Wind Area: (1/2" Radial Ice)	2.1	1.1	1.8	2.3	1.3	1.3	0.7	0.4	1.8
(Sq Ft)									
Survival Rating: *** (No Ice)	140mph	140mph	150mph	140mph	135mph	135mph	150mph	150mph	150mph

\* Wind Speed = 100 MPH at sea level with One Hundred Percent Humidity at Seventy Degrees Fahrenheit.

\*\* Wind Speed = 50 MPH at sea level with One Hundred Percent Humidity at Zero Degrees Fahrenheit.

\*\*\* Maximum Wind Speed at sea level with One Hundred Percent Humidity at Seventy Degrees Fahrenheit. Safety Factor of 1.66 included.