Band IV/V (UHF) Dipole Arrays 470-790MHz

Product Description

The UD wideband series of vertically polarized antennas are ideal for low power UHF TV transposer applications as well as higher power applications. These dipole antennas are designed for broadband operation.

Construction is of aluminium and the antenna is housed within a fibreglass radome that has been designed to survive wind speeds of 240 km/h (150mph) to AS1170.2: 2011. A range of dipole arrays with 2, 4, 8 and 16 elements are designed for various gain requirements.

Dual inputs are standard on high power models and custom VRPs are available as options. Contact RFS for specifics.

Features/Benefits

• Broadband design for Digital TV, multi-channel use

- · Designed for maximum reliability
- · Vertically polarized
- Operation: Pressurized or unpressurized
- · Low wind loading

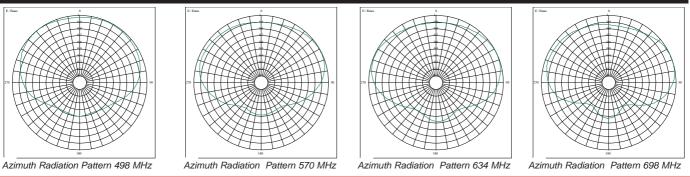
All information contained in the present brochure is subject to confirmation at time of ordering

- · Specific designs for higher wind speeds on request
- Dual input models, co-phased or quadrature fed

Specifications	2UD	4UD	4UD-HP	8UD-HP	8UD-2HP	16UD-HP	
Frequency Range, MHz	470-790						
Polarization	Vertical						
Number of Channels	Multi-channel						
Nominal Gain (Mid-band), dBd	5	8	8	11	11	14	
Azimuth Radiation Pattern	Directional						
Beam Tilt °	14	6.4	6.4	3.2	3.2	1.6	
Null Fill (minimum)							
Return Loss, dB		>20 (470-790MHz)					
Input Connector, DIN/EIA	7-16	7-16	2 x 7/8"	2 x 1-5/8"	2 x 1-5/8"	2 x 1-5/8"	
			1 x 1-5/8"		2 x (2 x 7/8")		
Max. Input Power @ 665MHz, kW	1	1	2 x 2.5	2 x 5	2 x 5	2 x 5	
			5		2 x (2 x 2.5)		
Impedance, ohms	50 unbalanced						
Weight (approx), kg	40	75	80	130	460	460	
Radome Outer Diameter, mm	323	323	323	323	425	425	
Radome Flange	Yes	Yes	Yes	Yes	No	No	
Dimensions, (for packing*) cm	122	280	280	462	1229	1229	
(*Height or Length, incl lightning rod and power divid	er)						
Effective Area (front, side, rear - full antenna), sq m	0.4	0.65	0.65	1.0	3.6	3.6	
Wind Load @ 50 m/sec (front, side), kN	0.6	1.0	1.0	1.5	5.5	5.5	
Pressurization Operational, kPa (psi)		10-25 (1.5-3.6) PD Network pressurised of				ressurised only	
Radome Colour	White						
Material - Radome	Fibreglass						
Material - Mounting Plate		(Salvanised Stee	el ———	No Plate	No Plate	

Note: Estimated wind load data are based on AS1170.2: 2011





RFS The Clear Choice™ Please visit us on the internet at http://www.rfsworld.com **UD** Wideband series

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Radio Frequency Systems



