



WDTC
Wide Band End Fed Dipole- Integral Mounting Clamp
70-610MHz

- Unity Gain**
- Exceptional Bandwidth**
- Slim Tapered Design**
- Integral Mounting Clamp**
- Rugged Glass Fibre Protection**
- Digital PMR Applications**

Type WDTC is a wide band end-fed vertical dipole suitable for masthead mounting or stand-off mounting from a tower or mast. A high degree of decoupling from the support structure and the feeder cable is achieved without the use of groundplane rods.

The radiating elements are encapsulated in low-loss polyurethane foam which bonds them firmly to the inside of the radiator housing thus ensuring good mechanical stability. The antenna is fitted with a short length of URM67 coaxial cable terminated in a type N series plug.



ELECTRICAL SPECIFICATIONS	
Frequency Range	70-610 MHz
Bandwidth	15% typical
Gain (Rel. $\lambda/2$ dipole)	Unity
VSWR	1.7:1 Typical
Polarisation	Vertical
E-Plane Beamwidth (-3dB)	$\pm 45^\circ$ typical
Power Rating	100 Watts
Impedance	50 ohms
Lightning Protection	DC ground
Feeder Tail	915mm URM67 coaxial cable
MECHANICAL SPECIFICATIONS	
Termination	N male (Other Terminations Avail:)
Overall Length	Refer to Table
Radiator Housing Diameter	32mm max O.D
Weight	Refer to Table
Rated Wind Velocity	193 km/h
Horizontal Thrust at Rated Wind	Refer to Table
Mounting	Integral clamp mounts to a 32-51mm pipe for in-line, offset or stand-off fixing
MATERIALS	
Radiator Housing	Green tapered glass fibre tube
Radiator Elements	Copper
Integral clamp	Aluminium casting, stainless steel U-bolts and fasteners



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Standard Models

Frequency Band	Model	Approx Length mm	Windloading(kg) @ 193 km/h	Weight (kg)
70-83MHz	WDTC70	2630	8.2	1.2
72-85MHz	WDTC75	2630	8.2	1.2
75-88MHz	WDTC80	2630	8.2	1.2
88-104Hz	WDTC95	2630	8.2	1.2
102-120MHz	WDTC110	1850	6.8	1.0
116-138MHz	WDTC130	1850	6.8	1.0
136-160MHz	WDTC150	1460	6.1	0.85
145-175MHz	WDTC160	1460	6.1	0.85
175-205MHz	WDTC190	1460	6.1	0.85
185-215MHz	WDTC200	1460	6.1	0.85
195-227MHz	WDTC210	1460	6.1	0.85
216-251MHz	WDTC235	1460	6.1	0.85
240-279 MHz	WDTC260	860	3.1	0.7
268-311 MHz	WDTC290	860	3.1	0.7
300-348MHz	WDTC325	860	3.1	0.7
330-390MHz	WDTC360	860	3.1	0.7
370-440MHz	WDTC410	860	3.1	0.7
400-480MHz	WDTC440	860	3.1	0.7
430-530MHz	WDTC480	860	3.1	0.7
500-610MHz	WDTC550	860	3.1	0.7

