



RDTC

End Fed Dipole with Integral Mounting Clamp

69-220MHz/300-520MHz

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

Type RDTC is an 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:	69-220 MHz 300-520 MHz
Bandwidth	8% typical
Gain (Rel. $\lambda/2$ dipole):	Unity
VSWR:	1.5:1 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)
69-74MHz	RDTC70	2630	8.2	1.2
74-79MHz	RDTC75	2630	8.2	1.2
79-85MHz	RDTC80	2630	8.2	1.2
83-89MHz	RDTC85	2630	8.2	1.2
89-95MHz	RDTC90	2630	8.2	1.2
95-102MHz	RDTC100	2630	8.2	1.2
102-110MHz	RDTC105	1850	6.8	1.0
109-118MHz	RDTC110	1850	6.8	1.0
116-127MHz	RDTC120	1850	6.8	1.0
126-138MHz	RDTC130	1850	6.8	1.0
133-145MHz	RDTC140	1460	6.1	0.85
138-150MHz	RDTC145	1460	6.1	0.85
143-156MHz	RDTC150	1460	6.1	0.85
148-160MHz	RDTC155	1460	6.1	0.85
152-167MHz	RDTC160	1460	6.1	0.85
157-171MHz	RDTC165	1460	6.1	0.85
160-176 MHz	RDTC170	1460	6.1	0.85
175-192 MHz	RDTC180	1460	6.1	0.85
183-201 MHz	RDTC190	1460	6.1	0.85
192-210 MHz	RDTC200	1460	6.1	0.85
201-220 MHz	RDTC210	1460	6.1	0.85
300-324 MHz	RDTC310	1460	6.1	0.85
312-337 MHz	RDTC325	1460	6.1	0.85
324-350 MHz	RDTC335	1460	6.1	0.85
337-364 MHz	RDTC350	1460	6.1	0.85
351-379 MHz	RDTC365	860	3.1	0.7
365-395MHz	RDTC380	860	3.1	0.7
380-410MHz	RDTC400	860	3.1	0.7
395-427MHz	RDTC410	860	3.1	0.7
410-440MHz	RDTC430	860	3.1	0.7
425-459MHz	RDTC440	860	3.1	0.7
440-480MHz	RDTC460	860	3.1	0.7
465-502MHz	RDTC480	860	3.1	0.7
483-520MHz	RDTC500	860	3.1	0.7

