



## UHF/VHF End Fed Dipole Fiberglass Omnidirectional Antennas

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.

### Features

- Unity gain
- Slim tapered design
- Integral mounting clamp
- Rugged glass fibre protection
- Digital PMR applications



# RDTC



### Technical Data

Maximum Power: 100 watts
Polarization: Vertical
Nominal Impedance: 50 ohms
VSWR: < 1.5:1 typical
Radiator Housing Diameter: 32 mm max O.D
Radiator Housing: Green tapered glass fibre tube
Radiator Material: Copper
Lightning Protection: DC ground
Termination: N male (Other terminations available)
Feeder Tail: 3 ft (915 mm) URM67 coaxial cable
Mounting: Integral clamp mounts to a 32-51 mm pipe for in-line, offset or stand-off fixing
Integral clamp: Aluminium casting, stainless steel U-bolts and fasteners

## Antenna Electrical Specifications

Model	Frequency Band	Gain (Rel. 1/2 wave dipole)	Bandwidth	E-Plane Beamwidth (-3 dB)
RDTC80	79-85 MHz	Unity	8% typical	90° typical
RDTC85	83-89 MHz	Unity	8% typical	90° typical
RDTC130	126-138 MHz	Unity	8% typical	90° typical
RDTC150	143-156 MHz	Unity	8% typical	90° typical
RDTC155	148-160 MHz	Unity	8% typical	90° typical
RDTC160	152-167 MHz	Unity	8% typical	90° typical
RDTC165	157-171 MHz	Unity	8% typical	90° typical
RDTC170	160-176 MHz	Unity	8% typical	90° typical
RDTC380	365-395 MHz	Unity	8% typical	90° typical
RDTC400	380-410 MHz	Unity	8% typical	90° typical
RDTC410	395-427 MHz	Unity	8% typical	90° typical
RDTC430	410-440 MHz	Unity	8% typical	90° typical
RDTC440	425-459 MHz	Unity	8% typical	90° typical
RDTC460	440-480 MHz	Unity	8% typical	90° typical

## Mechanical Specifications

Model	Antenna Length	Weight (Mass)	Rated Wind Velocity	Windloading @ 119.93 mph (193 km/h)
RDTC80	8.6' (2630 mm)	2.6 lbs (1.2 kg)	119.93 mph (193 km/h)	18.1 lbs (8.2 kg)
RDTC85	8.6' (2630 mm)	2.6 lbs (1.2 kg)	119.93 mph (193 km/h)	18.1 lbs (8.2 kg)
RDTC130	6.1' (1850 mm)	2.2 lbs (1.0 kg)	119.93 mph (193 km/h)	15.0 lbs (6.8 kg)
RDTC150	4.8' (1460 mm)	1.9 lbs (0.85 kg)	119.93 mph (193 km/h)	13.4 lbs (6.1 kg)
RDTC155	4.8' (1460 mm)	1.9 lbs (0.85 kg)	119.93 mph (193 km/h)	13.4 lbs (6.1 kg)
RDTC160	4.8' (1460 mm)	1.9 lbs (0.85 kg)	119.93 mph (193 km/h)	13.4 lbs (6.1 kg)
RDTC165	4.8' (1460 mm)	1.9 lbs (0.85 kg)	119.93 mph (193 km/h)	13.4 lbs (6.1 kg)
RDTC170	4.8' (1460 mm)	1.9 lbs (0.85 kg)	119.93 mph (193 km/h)	13.4 lbs (6.1 kg)
RDTC380	2.8' (860 mm)	1.5 lbs (0.7 kg)	119.93 mph (193 km/h)	6.8 lbs (3.1 kg)
RDTC400	2.8' (860 mm)	1.5 lbs (0.7 kg)	119.93 mph (193 km/h)	6.8 lbs (3.1 kg)
RDTC410	2.8' (860 mm)	1.5 lbs (0.7 kg)	119.93 mph (193 km/h)	6.8 lbs (3.1 kg)
RDTC430	2.8' (860 mm)	1.5 lbs (0.7 kg)	119.93 mph (193 km/h)	6.8 lbs (3.1 kg)
RDTC440	2.8' (860 mm)	1.5 lbs (0.7 kg)	119.93 mph (193 km/h)	6.8 lbs (3.1 kg)
RDTC460	2.8' (860 mm)	1.5 lbs (0.7 kg)	119.93 mph (193 km/h)	6.8 lbs (3.1 kg)