

## CATC Series Fiberglass Omnidirectional Antennas



Type CATC is a medium gain collinear antenna suitable for masthead mounting or stand-off mounting from a tower or a 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

- Slim tapered design
- Integral mounting clamp
- Rugged glass fibre protection



### Technical Data

Maximum Power: See Antenna Electrical Specifications
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: Type 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

# CATC



## Antenna Electrical Specifications CATC Series

Model	Frequency Range	Centre Frequency	Gain	Bandwidth	E-Plane Beamwidth (-3 dB)	Maximum Power
CATC140	138-147 MHz	142.5 MHz	3 dBd (5.2 dBi)	6% typical	36° typical	100 watts
CATC150	142-152 MHz	147.0 MHz	3 dBd (5.2 dBi)	6% typical	36° typical	100 watts
CATC155	147-157 MHz	152.0 MHz	3 dBd (5.2 dBi)	6% typical	36° typical	100 watts
CATC160	152-163 MHz	157.5 MHz	3 dBd (5.2 dBi)	6% typical	36° typical	100 watts
CATC165	158-168 MHz	163.0 MHz	3 dBd (5.2 dBi)	6% typical	36° typical	100 watts
CATC170	163-174 MHz	168.5 MHz	3 dBd (5.2 dBi)	6% typical	36° typical	100 watts
CATC180	177-188 MHz	182.5 MHz	3 dBd (5.2 dBi)	6% typical	36° typical	100 watts
CATC230	221-235 MHz	228.0 MHz	3 dBd (5.2 dBi)	6% typical	36° typical	100 watts
CATC390	380-396 MHz	388.0 MHz	5 dBd (7.2 dBi)	4% typical	16° typical	75 watts
CATC410	403-421 MHz	412.0 MHz	5 dBd (7.2 dBi)	4% typical	16° typical	75 watts
CATC420	412-430 MHz	421.0 MHz	5 dBd (7.2 dBi)	4% typical	16° typical	75 watts
CATC430/G3	421-439 MHz	430.0 MHz	3 dBd (7.2 dBi)	4% typical	16° typical	75 watts
CATC440	430-450 MHz	440.0 MHz	5 dBd (7.2 dBi)	4% typical	16° typical	75 watts
CATC450	441-460 MHz	450.5 MHz	5 dBd (7.2 dBi)	4% typical	16° typical	75 watts
CATC460	450-470 MHz	460.0 MHz	5 dBd (7.2 dBi)	4% typical	16° typical	75 watts

## Mechanical Specifications

Model	Overall Length	Weight (Mass)	Rated Wind Velocity	Horizontal Thrust at Rated Wind
CATC140	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC150	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC155	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC160	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC165	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC170	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC180	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC230	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC390	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC410	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC420	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC430/G3	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC440	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC450	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)
CATC460	8.63 ft (2630 mm)	2.65 lbs (1.2 kg)	119.93 mph (193 km/h)	18.10 lbs (8.2 kg)