

CATC/G3
3dB Collinear with Integral Mounting Clamp
380-511MHz



- 3dB Gain**
- Slim Tapered Design**
- Integral Mounting Clamp**
- Rugged Glass Fibre Protection**
- Digital PMR Applications**

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.



ELECTRICAL SPECIFICATIONS	
Frequency Range:	380-511 MHz
Bandwidth	4% typical
Gain (Rel. $\lambda/2$ dipole):	3dBd (5.2dBi)
VSWR:	1.5:1 typical
Polarisation	Vertical
E-Plane Beamwidth (-3dB)	$\pm 16^\circ$ typical
Power Rating:	75 Watts
Impedance:	50 ohms
Lightning Protection:	DC ground
Feeder Tail:	915mm URM67 coaxial cable
MECHANICAL SPECIFICATIONS	
Termination:	N male (Other Terminations Avail:)
Overall Length	1460mm
Radiator Housing Diameter	32mm max O.D
Weight:	0.85 kg
Rated Wind Velocity:	193 km/h
Horizontal Thrust at Rated Wind:	6.1 kg
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	Centre Frequency
380-396MHz	CATC390/G3	388.0MHz
387-404MHz	CATC395/G3	395.5MHz
395-412MHz	CATC400/G3	403.5MHz
403-421MHz	CATC410/G3	412.0MHz
412-430MHz	CATC420/G3	421.0MHz
421-439MHz	CATC430/G3	430.0MHz
430-450MHz	CATC440/G3	440.0MHz
441-460MHz	CATC450/G3	450.5MHz
450-470MHz	CATC460/G3	460.0MHz
460-480MHz	CATC470/G3	470.0MHz
470-490MHz	CATC480/G3	480.0MHz
480-501MHz	CATC490/G3	490.5MHz
490-511MHz	CATC500/G3	500.5MHz

