

CELmar0T

Marine and Land Based VHF Antenna

CELmar0 antenna series is a stainless steel omnidirectional antenna for marine and land based solutions. CELmar0T can be tuned for a band of $F_c \pm 3\text{MHz}$ in the frequency range 141-179MHz according to the supplied Cutting Charge. The CELmar0T is manufactured in premium quality materials to prevent galvanic corrosion. The antenna is suitable for rail or mast mounting.

The CELmar0 product family has been sold worldwide through more than two decades. The antenna is subject for improvement at all times. The antenna has the same rugged design as all other AC Antennas products thus it withstands harsh environmental conditions, both on sea and land.

Electrical specifications

Frequency range (MHz)	$F_c \pm 3\text{MHz}$ within 141-179MHz
Nominal impedance (ohm)	50
VHF power rating (Watt)	100
Gain (dBd/Marine dB)	0/3
VSWR	< 1.5:1
Polarization	Vertical
Connector	UHF-female
DC-shorted	No

Mechanical specifications

Length (m/ft)	Min. 0.88/2.9, Max. 1.21/4.0 (depending on frequency)
Weight (kg/lbs)	0.36/0.8
Wind rating (m/s / mph)	45/101
Material	Stainless Steel
Colour	Steel grey
Temperature range (°C/°F)	-55 to +60 / -67 to +140
Ingress Protection	IP66

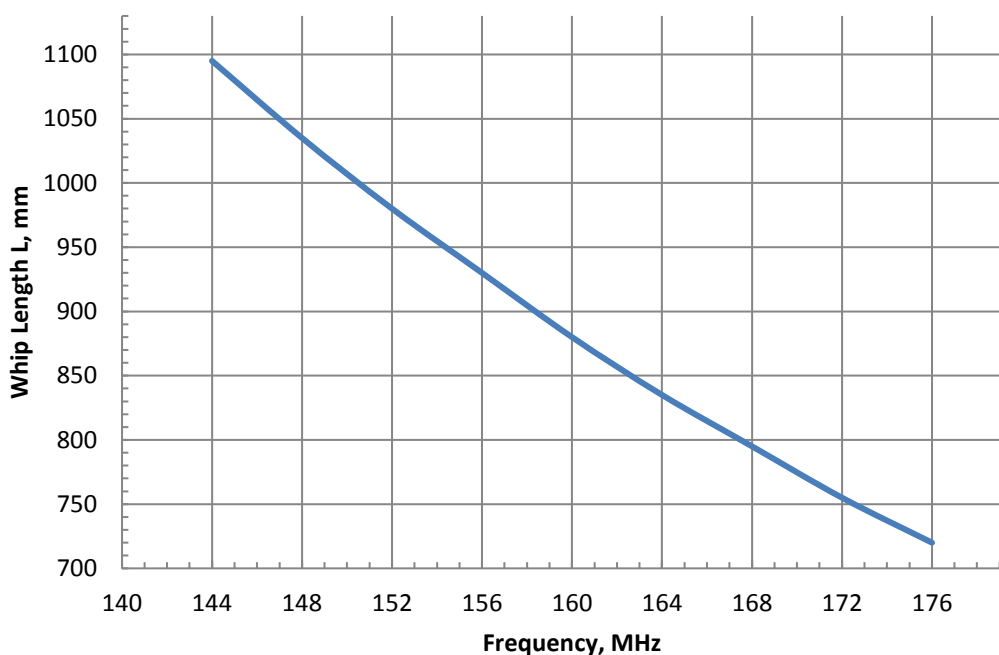
Mounting

No mounts included. CELmar0 has 5/8" - 24 TPI thread.
Can be used with all standard AC Antennas mounting equipment.



- Cut the antenna's whip to length based on desired center frequency, F_c : ± 3 MHz performance bandwidth is given from that length.
- Length may vary from provided values depending on actual installed location.

CELmar0T Tune Plot



Center Frequency [MHz]	+/- 3 MHz Bandwidth	Length, L [mm]
144	141-147	1095
148	145-151	1035
152	149-155	980
156	153-159	930
160	157-163	880
164	161-167	835
168	165-171	795
172	169-175	755
176	173-179	720

