G-CXL 225-450C

Unity Gain, Broad-Banded Base Station Antenna for 225 – 450 MHz. Designed for defense units.

DESCRIPTION

- G-CXL 225-450C is a 0 dBd gain, omnidirectional base station antenna.
- The antenna is extremely broad-banded and covers the complete band: 225 – 450 MHz.
- G-CXL 225-450C is designed for fixation on supporting tubes with outer diameter between 27 mm and 65 mm.
- The construction of the mount makes it possible to lead the cable either inside or along the outside of the mast tube.
- A glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.
- Atmospherical discharges are immediately led to ground as all metal parts are DC-grounded (consequently, the antenna shows a DC-short across the coaxial cable).
- This antenna is used where reliability is of utmost importance. A long lifetime has been taken into consideration when designing this antenna – it is sturdy and strong.



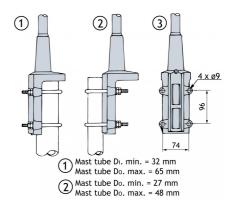
ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
G-CXL 225-450C	100000268

SPECIFICATIONS

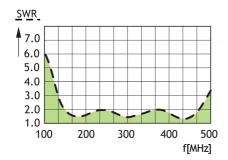
MODEL G-CXL 225-450C ANTENNA TYPE Coaxial, broad-band dipole FREQUENCY Covering: 225 − 450 MHz IMPEDANCE Nom. 50 Ω RADIATION Omnidirectional POLARIZATION Vertical GAIN	ELECTRICAL		
FREQUENCY Covering: $225 - 450 \text{ MHz}$ IMPEDANCE Nom. 50Ω RADIATION Omnidirectional POLARIZATION Vertical GAIN		G-CXL 225-450C	
IMPEDANCENom. 50 Ω RADIATIONOmnidirectionalPOLARIZATIONVerticalGAIN225 - 385 MHz : 0 dBd \pm 1.5 dB 385 - 410 MHz : - 6 dBd \pm 1 dBd 410 - 450 MHz : 0 dBd \pm 1.5 dBBANDWIDTH225 MHzSWR \leq 2.5, typ. \leq 2.0MAX. POWER200 WANTISTATIC PROTECTIONAll metal parts DC-grounded (Connector shows a DC-short)MECHANICALTEMP. RANGETEMP. RANGE -30° C \rightarrow +70° CCONNECTORN-femaleWIND SURFACE0.056 m²WIND LOAD85 N @ 175 km/h / 109 mphMAX. WIND SPEED200 km/h / 125 mphCOLOURGreenMATERIALSRadome : Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steelTOTAL HEIGHTApprox. 1.20 m	ANTENNA TYPE	Coaxial, broad-band dipole	
IMPEDANCENom. 50 ΩRADIATIONOmnidirectionalPOLARIZATIONVerticalGAIN $225 - 385 \text{ MHz}$: 0 dBd ± 1.5 dB $385 - 410 \text{ MHz}$: - 6 dBd ± 1 dBd $410 - 450 \text{ MHz}$: 0 dBd ± 1.5 dBBANDWIDTH 225 MHz SWR≤ 2.5, typ. ≤ 2.0MAX. POWER 200 W ANTISTATIC PROTECTIONAll metal parts DC-grounded (Connector shows a DC-short)MECHANICALTEMP. RANGETEMP. RANGE -30° C → $+70^{\circ}$ CCONNECTORN-femaleWIND SURFACE 0.056 m^2 WIND LOAD 85 N @ 175 km/h / 109 mphMAX. WIND SPEED 200 km/h / 125 mphCOLOURGreenMATERIALSRadome : Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steelTOTAL HEIGHTApprox. 1.20 m	FREQUENCY	Covering: 225 – 450 MHz	
POLARIZATION GAIN $ 225 - 385 \text{ MHz} : 0 \text{ dBd} \pm 1.5 \text{ dB} \\ 385 - 410 \text{ MHz} : -6 \text{ dBd} \pm 1 \text{ dBd} \\ 410 - 450 \text{ MHz} : 0 \text{ dBd} \pm 1.5 \text{ dB} $ BANDWIDTH $ 225 \text{ MHz} \\ SWR \leq 2.5, \text{ typ.} \leq 2.0 MAX. POWER 200 \text{ W} ANTISTATIC PROTECTION All metal parts DC-grounded (Connector shows a DC-short) MECHANICAL TEMP. RANGE -30^{\circ} \text{ C} \rightarrow +70^{\circ} \text{ C} CONNECTOR N-female WIND SURFACE 0.056 \text{ m}^{2} WIND LOAD 85 \text{ N @ 175 km/h / 109 mph} MAX. WIND SPEED 200 \text{ km/h / 125 mph} COLOUR Green MATERIALS Radome: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m$	IMPEDANCE		
GAIN $ 225 - 385 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB} \\ 385 - 410 \text{ MHz} \qquad : -6 \text{ dBd} \pm 1 \text{ dBd} \\ 410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dB} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dB} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dB} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dB} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dB} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dB} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dB} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dB} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 \text{ dBd} \pm 1.5 \text{ dBd} $ $ 8400 dB$	RADIATION	Omnidirectional	
$385 - 410 \text{ MHz} \qquad : -6 \text{ dBd} \pm 1.3 \text{ dB}$ $385 - 410 \text{ MHz} \qquad : -6 \text{ dBd} \pm 1 \text{ dBd}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $385 - 410 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dB}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dBd}$ $410 - 450 \text{ MHz} \qquad : 0 \text{ dBd} \pm 1.5 \text{ dBd}$ $410 - 450 \text{ MHz} \qquad $	POLARIZATION	Vertical	
SWR ≤ 2.5 , typ. ≤ 2.0 MAX. POWER 200 W ANTISTATIC PROTECTION All metal parts DC-grounded (Connector shows a DC-short) MECHANICAL TEMP. RANGE $-30^{\circ} \text{ C} \rightarrow +70^{\circ} \text{ C}$ CONNECTOR N-female WIND SURFACE 0.056 m^2 WIND LOAD 85 N @ 175 km/h / 109 mph MAX. WIND SPEED 200 km/h / 125 mph COLOUR Green MATERIALS Radome : Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m	GAIN	385 - 410 MHz	: - 6 dBd ± 1 dBd
MAX. POWER 200 W ANTISTATIC PROTECTION All metal parts DC-grounded (Connector shows a DC-short) MECHANICAL TEMP. RANGE -30° C → +70° C CONNECTOR N-female WIND SURFACE 0.056 m² WIND LOAD 85 N @ 175 km/h / 109 mph MAX. WIND SPEED 200 km/h / 125 mph COLOUR Green MATERIALS Radome : Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m	BANDWIDTH	225 MHz	
ANTISTATIC PROTECTION All metal parts DC-grounded (Connector shows a DC-short) MECHANICAL TEMP. RANGE -30° C → +70° C CONNECTOR N-female WIND SURFACE 0.056 m² WIND LOAD 85 N @ 175 km/h / 109 mph MAX. WIND SPEED 200 km/h / 125 mph COLOUR Green MATERIALS Radome: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m	SWR	≤ 2.5, typ. ≤ 2.0	
(Connector shows a DC-short) MECHANICAL TEMP. RANGE	MAX. POWER	200 W	
TEMP. RANGE −30° C → +70° C CONNECTOR N-female WIND SURFACE 0.056 m² WIND LOAD 85 N @ 175 km/h / 109 mph MAX. WIND SPEED 200 km/h / 125 mph COLOUR Green MATERIALS Radome : Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m	ANTISTATIC PROTECTION		
CONNECTOR N-female WIND SURFACE 0.056 m² WIND LOAD 85 N @ 175 km/h / 109 mph MAX. WIND SPEED 200 km/h / 125 mph COLOUR Green MATERIALS Radome: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m	MECHANICAL		
WIND SURFACE 0.056 m² WIND LOAD 85 N @ 175 km/h / 109 mph MAX. WIND SPEED 200 km/h / 125 mph COLOUR Green MATERIALS Radome: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m	TEMP. RANGE	-30° C → +70° C	
WIND LOAD 85 N @ 175 km/h / 109 mph MAX. WIND SPEED 200 km/h / 125 mph COLOUR Green MATERIALS Radome: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m		N-female	
MAX. WIND SPEED 200 km/h / 125 mph COLOUR Green MATERIALS Radome : Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m	CONNECTOR	N-female	
COLOUR Green MATERIALS Radome: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m			
MATERIALS Radome: Polyurethane-coated glass fibre Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m	WIND SURFACE	0.056 m ²	09 mph
Mounting bracket: Seawater resistant aluminium, black Clamps: Stainless steel TOTAL HEIGHT Approx. 1.20 m	WIND SURFACE WIND LOAD	0.056 m ² 85 N @ 175 km/h / 1	09 mph
	WIND SURFACE WIND LOAD MAX. WIND SPEED	0.056 m ² 85 N @ 175 km/h / 1 200 km/h / 125 mph	09 mph
WEIGHT Approx. 3.0 kg	WIND SURFACE WIND LOAD MAX. WIND SPEED COLOUR	0.056 m ² 85 N @ 175 km/h / 1 200 km/h / 125 mph Green Radome : Polyuretha Mounting bracket: Se aluminium, black	ne-coated glass fibre eawater resistant
	WIND SURFACE WIND LOAD MAX. WIND SPEED COLOUR MATERIALS	0.056 m ² 85 N @ 175 km/h / 1 200 km/h / 125 mph Green Radome : Polyuretha Mounting bracket: Se aluminium, black Clamps: Stainless ste	ne-coated glass fibre eawater resistant
MOUNTING On 27 - 65 mm dia. mast tube	WIND SURFACE WIND LOAD MAX. WIND SPEED COLOUR MATERIALS TOTAL HEIGHT	0.056 m ² 85 N @ 175 km/h / 1 200 km/h / 125 mph Green Radome: Polyuretha Mounting bracket: Se aluminium, black Clamps: Stainless ste Approx. 1.20 m	ne-coated glass fibre eawater resistant

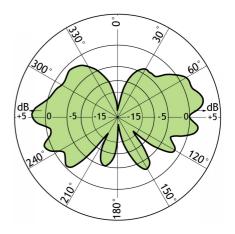
MULTI-PURPOSE MOUNTING BRACKET



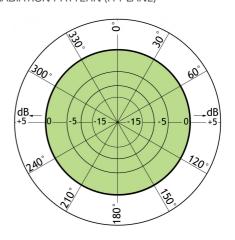


TYPICAL RADIATION PATTERN (E-PLANE)





TYPICAL RADIATION PATTERN (H-PLANE)





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