

Wideband Base Station and Marine Antenna for the 690 - 4200 MHz Band

DESCRIPTION

- Wideband future proof base station antenna cover all 3G, 4G LTE and 5G frequencies. Also provides full band coverage for Band 8 and CBRS.
- Simple mounting using the 1" revolving nut system.
- Wide variety of accessory mounting brackets available.
- Large bandwidth with respect to both VSWR and gain.
- Highly suitable for duplex operation with large spacing between the Tx and the Rx frequencies for 4G or Private networks like Band 8 and CBRS.
- The antenna element is sealed in a high-quality, glass fibre tube.
- The CXL 690-4200 is a vibration-proof, lightweight, slim-line, corrosion resistant, modern style base station and marine antenna.



SPECIFICATIONS

| Electrical | | | |
|-------------------------|-----------------|-----------------|-----------------|
| Model | CXL 690-4200 | | |
| Frequency | 698 - 960 MHz | 1760 - 2690 MHz | 3300 - 4200 MHz |
| Max. Input Power | 100 W | | |
| Polarisation | Vertical | | |
| 3 dB Beamwidth, E-Plane | 80° ± 10° | | |
| 3 dB Beamwidth, H-Plane | Omnidirectional | | |
| Impedance | 50 Ω | | |
| Gain | 0 dBi | 2 dBi | 5 dBi |
| VSWR | < 2.5:1 | < 2:1 | < 2.5:1 |

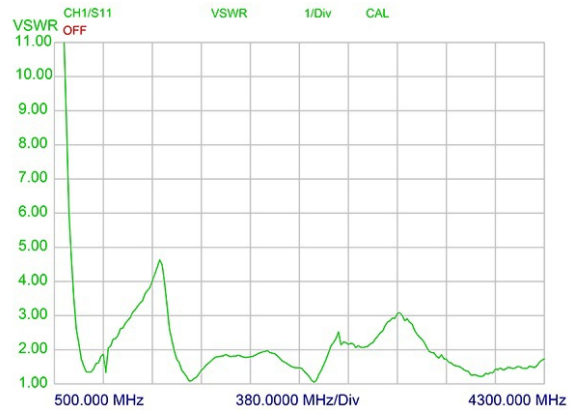
| Mechanical | |
|---------------|--|
| Connection(s) | N(f) |
| Materials | Shroud : Polyurethane-coated glass fibre Mounting bracket : Chromed brass |
| Dimensions | 300 x 23 mm / 11.81 x 0.91 in. |
| Wind Load | 7.5 N (160 km/h) |
| Weight | Approx. 0.45 kg / 0.99 lb. |
| Mounting | On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see accessories) |

| Environmental | |
|-----------------------------|------------------|
| Operating Temperature Range | -30 °C to +70 °C |
| Survival Wind Speed | 200 km/h |
| Ingress Protection | IP66 |

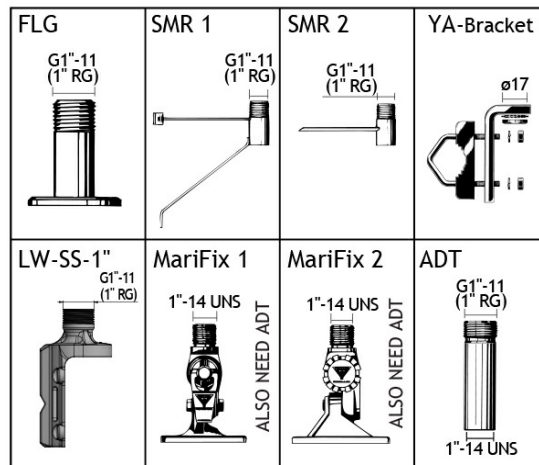
ORDERING

| Model | Product No. | Frequency |
|--------------|--------------------------|----------------|
| CXL 690-4200 | Contact for availability | 690 - 4200 MHz |

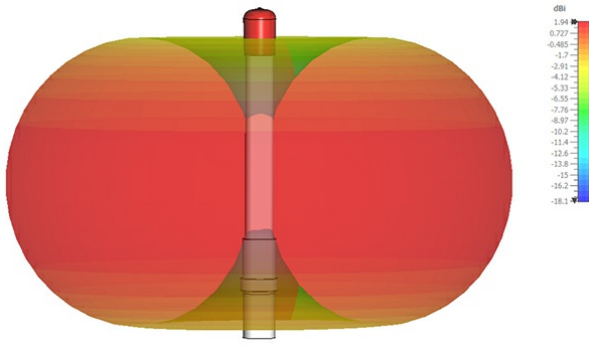
TYPICAL VSWR CURVE



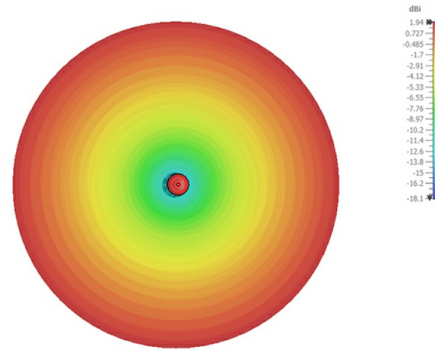
ACCESSORIES (TO BE ORDERED SEPARATELY)



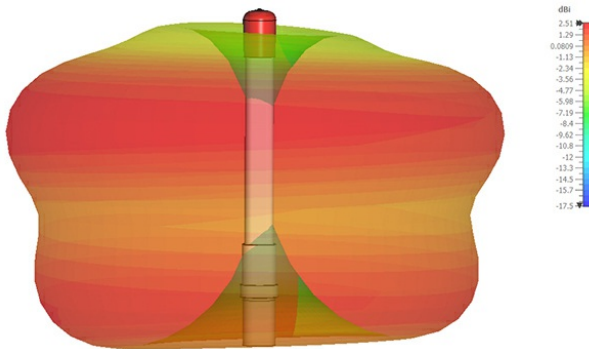
TYPICAL RADITION PATTERN (E-PLANE) FOR 690 MHZ



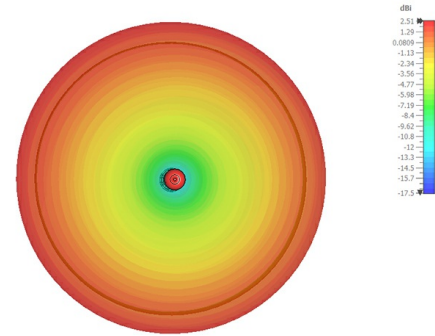
TYPICAL RADITION PATTERN (H-PLANE) FOR 690 MHZ



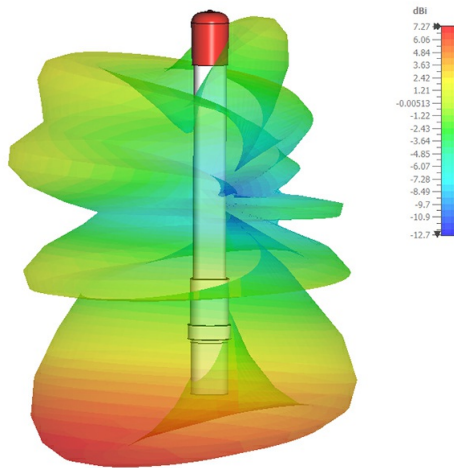
TYPICAL RADITION PATTERN (E-PLANE) FOR 710 MHZ



TYPICAL RADITION PATTERN (H-PLANE) FOR 710 MHZ



TYPICAL RADITION PATTERN (E-PLANE) FOR 3300 MHZ



TYPICAL RADITION PATTERN (H-PLANE) FOR 3300 MHZ

