

The Corotor II Plus Feedhorns



The Corotor II Plus and Corotor II Plus Wideband are designed for systems which require reception of both C and Ku-Band signals. The Corotor II Plus is primarily for reception of satellites in the United States while the Corotor II Plus Wideband is used throughout Europe, the Middle East and North Africa. Both feedhorns feature Chaparral's patented probe for C-Band, reception and a unique low-loss dipole antenna for Ku-Band reception. The dipole is virtually invisible to the C-Band probe, resulting in superior C-Band performance while improving Ku-Band illumination. Both the probe and the dipole are controlled by a Chaparral servo motor, providing infinite skew adjustments and quick selection of horizontal and vertical poles.

The Corotor II Plus receives linear C-Band signals in the 3.7-4.2GHz range and linear Ku-Band signals in the 11.7-12.7GHz range. The Corotor II Plus Wideband is for reception of circular and linear C-Band signals in the 3.4-4.2GHz range and linear Ku-Band signals in the 10.95-12.75GHz range. The Corotor II Plus Wideband features anew low loss dielectric plate. The new dielectric plate provides a lower noise temperature and improved cross polarization.

The Corotor II Plus features chip-resistant powder paint, waterproof gaskets and connectors for protection against the environment. Built in the Chaparral tradition of quality, the Corotor II Plus is the ideal choice for systems which require reliable performance.

Features

- Low Loss Dipole
- Adjustable Scalar Ring
- 100% Tested
- Polyurethane Powder Coating
- Mounts to Single-Pole, Tripod and Quadpod support
- Comprehensive Factory Warranty

Specifications

Part Number	Corotor II Plus: 11-5000-1 Corotor II Plus Wideband:11-5300-1
C-Band Frequency Range	3.7 – 4.2 GHz (3.4 – 4.2GHz for Wideband)
Ku-Band Input Frequency Range:	11.7 – 12.7 GHz (10.95 – 12.75GHz for Wideband)
f/D Range	.32 to .45
VSWR	1.3:1 in both bands
Polarization	Linear; horizontal and vertical (Circular C-Band for Wideband model)
Cross Pol. Isolation	20 dB or better
RF Ports	C-Band: WR 229 compatible (Ku-Band: WR 75 compatible)
Power requirements	+5 VDC and TTL Logic Pulse
Weight	1.40 Kg



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(954) 941-8883