CERNEX, Inc.

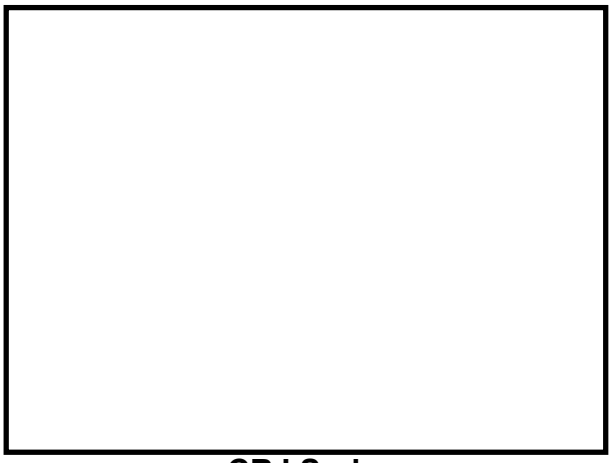
Rotary Joints

FEATURES:

- Negligible Variation During Rotation
- Minimum Effects on Transferred Signals

APPLICATIONS:

- Test setups



CRJ Series

DESCRIPTION:

Cernex's CRJ series rotary joints are available in standard circular waveguide sizes from 11.6 to 150 GHz. Each rotary joint consists of two circular waveguide sections mounted on ball bearings. Connections to the guides are made at standard male and female circular flanges. Precise alignment of the waveguide sections prevents spurious mode generation, and the very small gap between abutting surfaces contributes a negligible loss in the TE_{01} circular mode. In all models, amplitude variation with rotation is less than 0.2 dB and phase variation is less than 2 degrees.

SPECIFICATIONS:

Frequency Band (GHz)	11.6 – 48.0	48.0 – 96.0	96.0 – 150.0
Frequency Range (GHz)	11.6-16 ; 13.2-18.9 ; 15.9-21.9	39.8-54.8; 46.4-63.90	93.0-128.0
	18.6-25.6; 21.9-30.1; 25.3-34.9	50.0-68.0; 53.1-73.1	101.0-139.0
	27.3-38.0; 29.3-40.4; 32.0-44.0	61.9-85.2; 69.7-95.9	124.0-150.0
	34.8-48.0		
Insertion Loss TE_{01} (dB) Max.	0.3	0.4	0.5
VSWR Min.	1.10	1.10	1.15

HOW TO ORDER:

Specify Model Number

CRJ –LF-HF-ZZ-YY-- XX

To be specified by the factory

Low End Freqeuency Band

High End Frequency Band

High End Frequency Range

Low End Frequency Range

Example: To order a rotary joint of Frequency band of 11.6-48.0 Ghz, and Frequency range of 34.8-48.0Ghz, specify CRJ-2941-XX

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE