

Orthomode Transducers

FEATURES:

- ❖ VSWR < 1.2
- ❖ Isolation > 30dB in Linear Mode
- ❖ Higher Frequency Units will be Quoted on Request
- ❖ Available from 18.0 to 110 GHz with 3% or Greater Bandwidth



COT Series

DESCRIPTION:

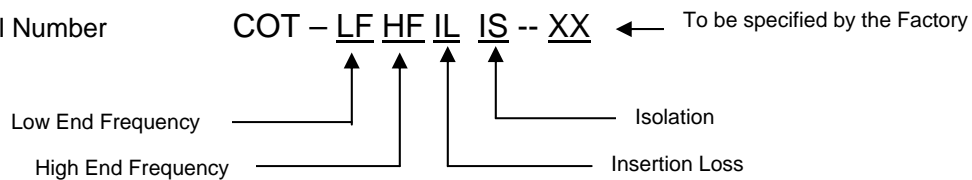
Cernex's COT series orthomode transducer couples two orthogonal linearly polarized signals simultaneously while providing polarization isolation between transmit and receive.

SPECIFICATIONS:

Waveguide Band	X	X/Ku	Ku	K	Ka	Q	U	V	E	W	F
Waveguide Size	WR - 90	WR - 75	WR - 62	WR- 42	WR- 28	WR- 22	WR- 19	WR- 15	WR- 12	WR- 10	WR - 8
Frequency Range (GHz)	8.2 to 12.4	10 to 15.0	12.4 to 18.0	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110	90 to 140
% Bandwidth	±1 GHz	±1 GHz	±2 GHz	4%	4%	4%	3%	3%	3%	3%	3%
A	in	-	-	-	1.25	1.25	1.25	1.25	1.25	1.25	1.25
	mm	-	-	-	31.8	31.8	31.8	31.8	31.8	31.8	31.8
B	in	-	-	-	1.25	1.25	1.25	1.25	1.25	1.25	1.25
	mm	-	-	-	31.8	31.8	31.8	31.8	31.8	31.8	31.8
C	in	-	-	-	1.25	1.25	1.25	1.25	1.25	1.25	1.25
	mm	-	-	-	31.8	31.8	31.8	31.8	31.8	31.8	31.8

HOW TO ORDER:

Specify Model Number



Example: To order an orthomode transducer with circular waveguide size of WR-10, and a frequency band of 90-91GHz, with a Insertion loss of 0.8dBand Isolation of 30dB specify COT909108030-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE