

## Full Band Frequency Extenders

### FEATURES:

- ❖ Frequency coverage: 26.5 to 170GHz
- ❖ Full waveguide band operation
- ❖ High output power
- ❖ Low harmonics and spurious emission
- ❖ Low cost

### APPLICATIONS:

- ❖ Network analyzer systems
- ❖ Frequency sources
- ❖ Test instrumentations



### CFE Series

### DESCRIPTION:

**CFE series** full band frequency extenders are designed to extend the industry standard low frequency signal sources or generators to higher millimeterwave frequency range. These extenders offer an alternative way of allowing users to possess millimeterwave signal sources in a low cost way without losing all the functionalities and features that the industry standard models have to offer. These extenders deliver superior performance.

### SPECIFICATIONS:

Waveguide Band	Ka	Q	U	V	E	W	F	D
Model#	CFE1320X208	CFE1116X305	CFE1320X305	CFE1218X404	CFE1015X603	CFE1218X600	CFE1015X9M3	CFE1218X9M3
Frequency Range (GHz)	13.25 to 20.0	11.0 to 16.67	13.33 to 20.0	12.5 to 18.75	10.0 to 15.0	12.5 to 18.33	10.0 to 15.56	12.22 to 18.89
Input Power (dBm)	+3.0	+3.0	+3.0	+3.0	+3.0	+3.0	+3.0	+3.0
Output Frequency (GHz)	26.5 to 40.0	33.0 to 50.0	40.0 to 60.0	50.0 to 75.0	60.0 to 90.0	75.00 to 110.0	90.0 to 140.0	110.0 to 170.0
Output Power (dBm)	+8.0	+5.0	+5.0	+4.0	+3.0	+0.0	-3.0	-6.0
Harmonics	-20dBc	-20dBc	-20dBc	-20dBc	-20dBc	-20dBc	-20dBc	-20dBc
Spurious	-60 dBc	-60 dBc	-60 dBc	-60 dBc	-60 dBc	-60 dBc	-60 dBc	-60 dBc
Bias (Vdc/mA)	+12.0/180	+12.0/180	+12.0/200	+12.0/500	+12.0/550	+12.0/550	+12.0/650	+12.0/650

NOTES: CONTACT THE FACTORY FOR SPECIAL REQUIREMENTS

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE