

Full Band Frequency Extenders

FEATURES:

- ❖ Frequency coverage: 26.5 to 500GHz
- ❖ Full waveguide band operation
- ❖ High output power
- ❖ Low harmonics and spurious emission
- ❖ Low cost

APPLICATIONS:

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



DESCRIPTION:

CFE Series

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	CFE1218X9M6
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

Full Band Frequency Extenders

Waveguide Band	V	W	D	G	Y	
Model#	CFE1218X413AV	CFE1218X610AV	CFE0914X1202AV	CFE1418X12N2AV	CFE1418X18N8AV	CFE0913X36N18AV
Frequency Range (GHz)	50-75	75-110	110-170	170-220	220-335	325-500
Multiplication Factor	4	6	12	12	18	36
Output Power (dBm)	≥+13	≥+10	≥+2	≥-2	≥8	≥-18
RF Input Interface	3.5mm female connector					
Power Supply	15V-18V adapter					
Power Consumption	<20W					
Output Interface	WR15	WR10	WR6.5	WR5.1	WR3.4	WR2.2
Dimensions (WxHxD)	240mmx120mmx85mm(without corner protection)					

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE

