

Noise Figure Measurement Extender

FEATURES

- Low Noise Figure
- Good LO Stability
- Optional phase locking of internal LO source
- Broad Frequency Range
- Convenient 2U Rack
- 110/230VAC supply

APPLICATIONS

- Frequency Extenders for noise figure measurement systems
- Communications
- OEM Test Instrumentation
- EW and ECM Systems
- Radar Front Ends

DESCRIPTION

The **FBC** series is a downconverter for use as a frequency extender for noise figure measurement test systems in a 2U rack. RF frequencies are downconverted to an IF in the 4-18 GHz range suitable for frequency extending any standard noise figure analyser. See table below for details.

FBC-xx-xx	Freq Range (GHz)	NF (dB max, Ssb) EIA	LO stability (MHz)	Input Waveguide	Output Connector
FBC-28-40-26.5GHz...40GHz	26.5-40	15	±35	WR28	SMA-F
FBC-22-50-36.5GHz...50GHz	36.5-50	15	±35	WR22	SMA-F
FBC-15-63.5-50GHz...63.5GHz	50-63.5	16.5	±35	WR15	SMA-F
FBC-15-75-61.5GHz...75GHz	61.5-75	10	±35	WR15	SMA-F
FBC-12-80-66.5GHz...80GHz	66.5-80	16	±45	WR12	SMA-F
FBC-10-88.5-75GHz...88.5GHz	75-88.5	18	±50	WR10	SMA-F
FBC-10-100-86.5GHz...100GHz	86.5-100	18	±50	WR10	SMA-F
FBC-10-110-96.5GHz...110GHz	96.5-110	18	±50	WR10	SMA-F



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Frequency Block Down Converters

FEATURES

- Low Noise Figure
- Good Spurious Signal Rejection
- Built in PLL Oscillator
- Internal 100MHz or External 10MHz phase locking
- 10MHz External Reference Input
- Broad Frequency Range
- Convenient 1U Rack
- 110/230VAC supply

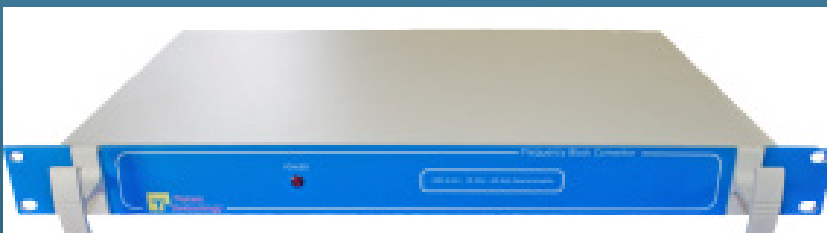
APPLICATIONS

- Frequency Extenders to existing hardware
- Communications
- OEM Test Instrumentation
- EW and ECM Systems
- Radar Front Ends

DESCRIPTION

The **FBC-K** series is a downconverter for use with 2-20GHz tuned receivers in a 1U 19" rack. The system consists of 3 RF channel inputs with 1 IF output. Channel selection is by TTL control. See table below for details.

FBC-K-xx	Frequency Range	Max NF (dB)	IF Outputs	RF to IF Gain	LO Spurious Signals
FBC-K-40-10MHz...40GHz	Input1 10MHz-20GHz Input2 18GHz-26.5GHz Input3 26.5GHz-40GHz	13	2.5-17GHz	Input1: Straight through Input2, 3: 15dB±3dB	<-60dBc
FBC-K-40-26.5GHz...40GHz	26.5GHz-40GHz	13	3.5-17GHz	15dB±3dB	<-60dBc
FBC-K-26.5-18GHz...26.5GHz	18GHz-26.5GHz	13	2.5-11GHz	15dB±3dB	<-60dBc



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