

**Datasheet**
**Description**

Farran Technology offers the FBC series of down converters for use as frequency extenders for noise figure measurement test system. The FBC-FB-XX is a fullband system can be built upon an Agilent N8975A Noise Figure Analyzer (NFA) or X-Series Signal Analyzers with Option N9069A. The system allows the user to extend the frequency range of the NFA to allow for accurate noise figure measurements to be performed on a device covering Ka, U, V, E, W bands (26.5-110 GHz), when used with an Agilent E8247C signal generator (or equivalent).

The FBC-22-FB covers the frequency Band 36.5 – 50 GHz and has a built in internal LO so operates without the need for the external signal generator.


**Features**

- Full band noise figure measurements
- Compatible with Agilent NFA
- Compatible with Agilent PXA with noise figure personality
- Low noise figure for high system accuracy
- Convenient packing to match the VNA frequency extension

**Applications**

- Frequency extenders for noise figure measurement systems
- Communications
- OEM test instrumentation
- EW and ECM systems
- Radar front ends

Specification	Unit	Min	Typ	Max
System Operating Frequency	GHz	36.5		50
System Conversion Gain	dB	10		
System Noise Figure	dB		13	15
IF Output Frequency	MHz	4.5		18
Test Port Damage Level	dBm	+5		
Test Port Interface	-	WR-22 UG-599/U		
LO Connector	-	SMA 3.5 mm (F)		
Power Requirements	-	240/110 V AC		
Weight	kg		3.5	
Dimensions (L x W x H)	-	288 x 120 x 90		

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