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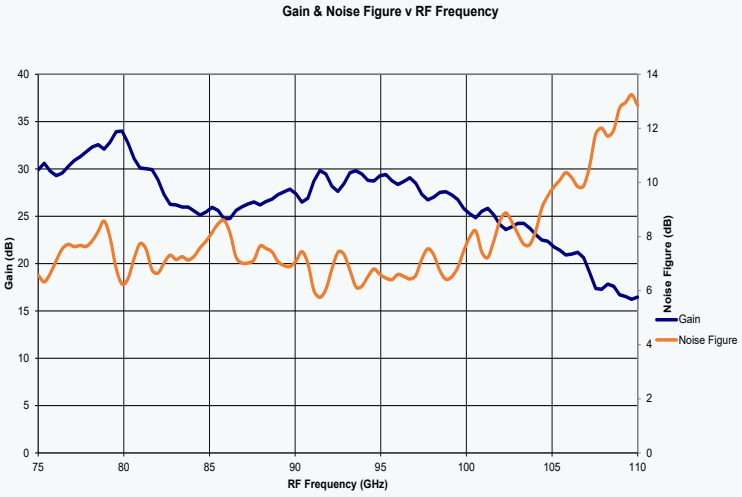
WR-10 Frequency Block Downconverter 75-110 GHz: **FBC-10-FB-0001**

Farran offers the FBC series of down converters for use as frequency extenders for noise figure measurement test systems.

The FBC-FB-XX is a fullband system can be built upon an Keysight 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 V, W, F, D and G bands (50-220 GHz), when used with an Keysight E8247C signal generator (or equivalent). The FBC-10-FB-0001 covers the full W Band 75 – 110 GHz.

Key Facts:

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



APPLICATIONS

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

ACCESSORIES

- User Manual

"We used a Farran FBC & WGNS combination with our existing N8975 Noise Figure System and it operated seamlessly. We are very happy with the performance and the measurements results we are now getting."

Telecommunications Engineer Team Lead, US Wireless Communications Corporation

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Product Specification

System Specification	Unit	Min	Typ	Max
System Operating Frequency	GHz	75	-	110
System Conversion Gain	dB	+10	-	-
System Noise Figure	dB	-	12	15
IF Output Frequency	MHz	-	11.139	-
LO Input Frequency	GHz	9.375	-	13.75
LO Input Power	dBm	+5	-	+10
Test Port Damage Level	dBm	+5	-	-
Test Port Interface	-	WR-10 UG-387/U-M		
LO Connector	-	SMA 3.5 mm (F)		
IF connector	-	SMA 3.5 mm (F)		
Power Requirements	-	240/110 V AC		
Weight (approx.)	kg	3.5		
Dimensions (L x W x H)	mm	290 x 120 x 90		

SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware Support

For more information on any of our products or services please visit our website: www.farran.com

TECHNICAL SUPPORT

- Technical support provided directly by our knowledgeable and friendly engineers.
- Support for pre- and post-purchase: system configuration, installation and troubleshooting.

PRODUCT INSIGHTS

- For more product insights register at www.farran.com/customer
- Additional information: test data, CAD drawings and 3D models available.

WARRANTY

- Standard 3 year warranty.
- Up to 5 year warranty optional.

Specification Definitions

Nominal value (nom.) – ensured by design, not tested. **Measured value (min, max)** – expected and warranted product performance obtained from the actual measurements of product sample. **Non-traceable measured value (n. trc. meas.)** – expected product performance obtained from the actual measurements of a product sample by means of using Farran's own equipment and methods. Traceable only to Farran laboratory equipment. **Typical data (typ.)** – value that represents the product specification met over 90% of bandwidth or a mean value.
Specifications without limits – represent the warranted product performance; with values of no or a negligible deviation from the given value and as such have a secondary impact on the product performance.