Farran Technology

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 (26.5-170 GHz), when used with an Agilent E8247C signal generator (or equivalent).
The FBC-06-FB covers the full W-band 110-170 GHz range.
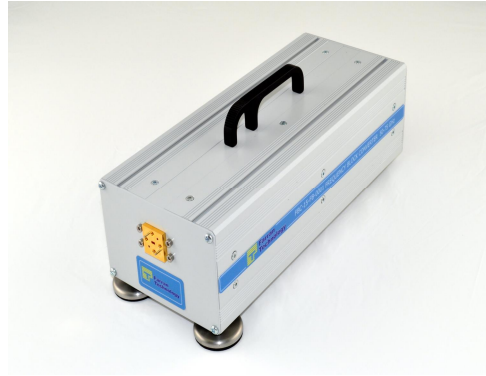
Features

˝ 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	110		170
System Conversion Gain	dB	+10		
System Noise Figure	dB		18	20
IF Output Frequency	MHz		11.139	
LO Input Frequency	GHz	6		15
LO Input Power	dBm	+5		+10
Test Port Damage Level	dBm	+5		
Test Port Interface	-	WR-06 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	kg		3.5	
Dimensions (L x W x H)	-	288 x 120 x 90		

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Typical System Gain

System Gain
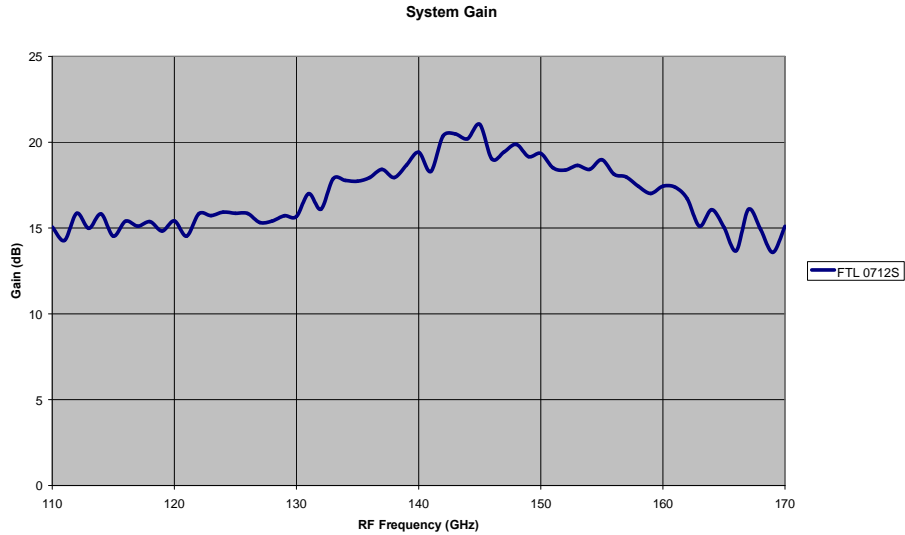
Typical System Noise Figure

System Noise Figure
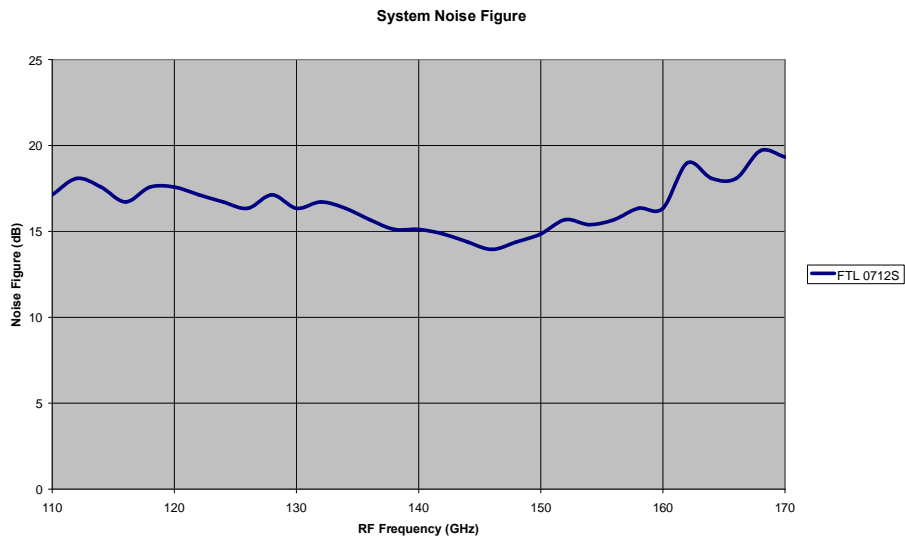
Notes:

Farran Technology reserves the right to change, without notice, the characteristic data and other specifications applied to this product. The product may be subject to Irish export restrictions.

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