



FREQUENCY BLOCK CONVERTER

[FBC-28 - 26.5-40GHz](#)

[FBC-22 - 36.5-50GHz](#)

[FBC-19 - 40-60GHz](#)

[FBC-15 - 50-75GHz](#)

[FBC-12 - 60-90GHz](#)

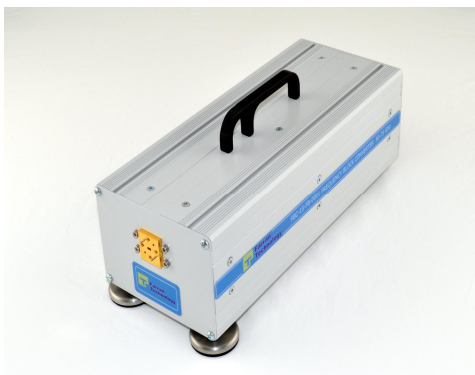
[FBC-10 - 75-110GHz](#)

[FBC-06 - 110-170GHz](#)

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		

Datasheet

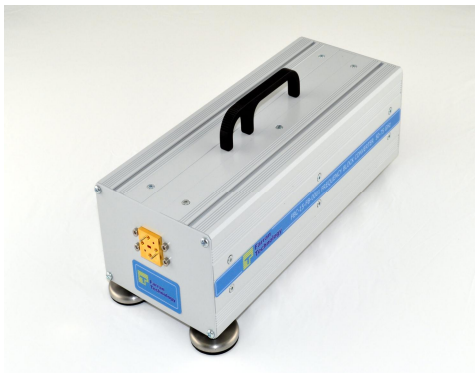
Notes:

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Features

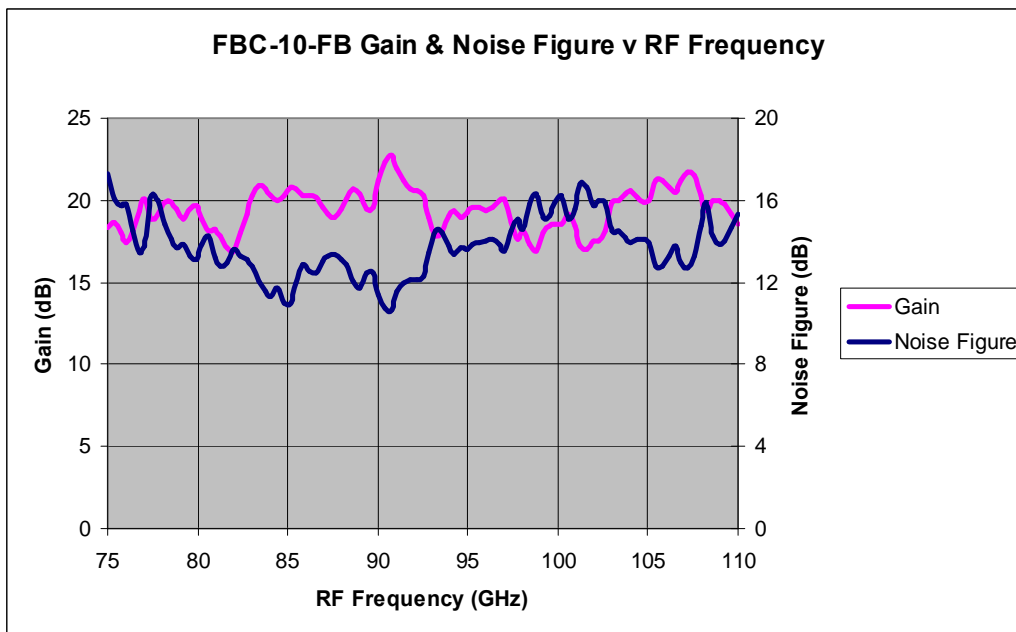
- ~ Full band noise figure measurements
- ~ Compatible with Agilent NFA
- ~ Compatible with Agilent PXA with noise figure personality
- ~ Low noise figure for high system accuracy
- ~ Convenient packing to match the VNA frequency extension

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	75		110
System Conversion Gain	dB	+10		
System Noise Figure	dB		18	20
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	kg		3.5	
Dimensions (L x W x H)	-	288 x 120 x 90		

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Features

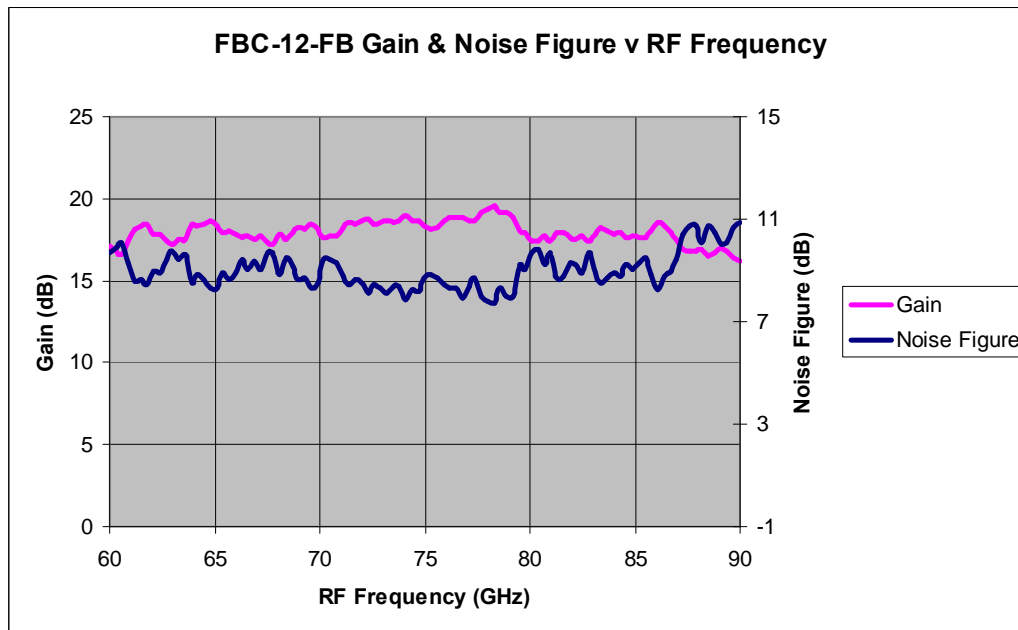
- ~ Full band noise figure measurements
- ~ Compatible with Agilent NFA
- ~ Compatible with Agilent PXA with noise figure personality
- ~ Low noise figure for high system accuracy
- ~ Convenient packing to match the VNA frequency extension

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	60		90
System Conversion Gain	dB	+10		
System Noise Figure	dB		14	17
IF Output Frequency	MHz		11.139	
LO Input Frequency	GHz	7.5		11.25
LO Input Power	dBm	+5		+10
Test Port Damage Level	dBm	+5		
Test Port Interface	-	WR-12 UG-387/U		
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)	-	290 x 120 x 90		

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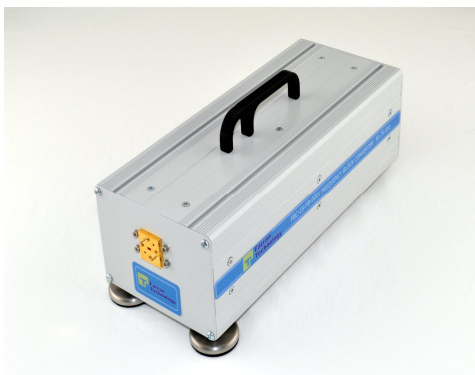
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Features

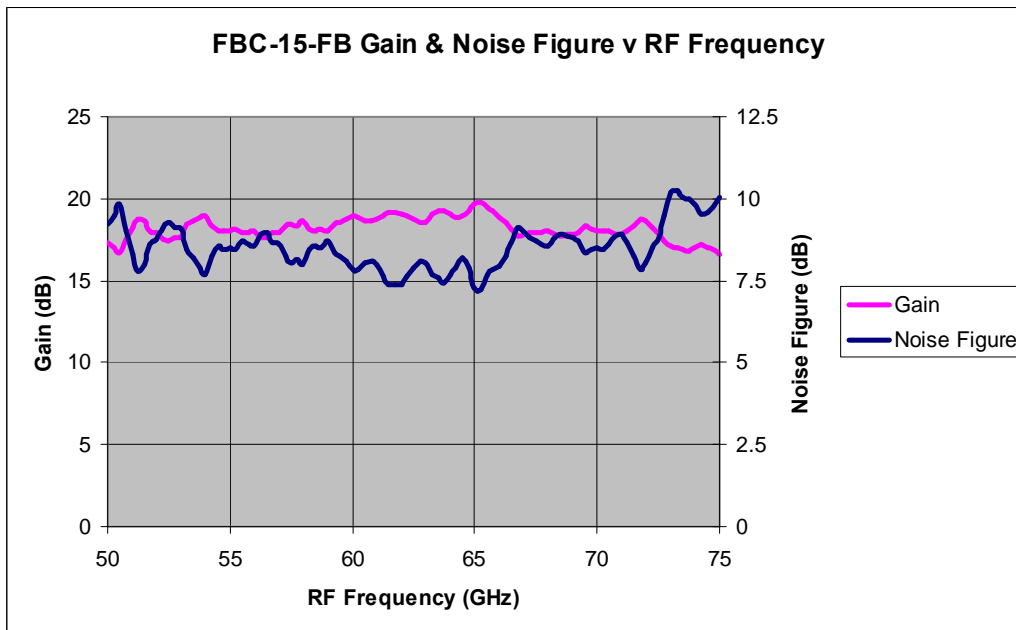
- ~ Full band noise figure measurements
- ~ Compatible with Agilent NFA
- ~ Compatible with Agilent PXA with noise figure personality
- ~ Low noise figure for high system accuracy
- ~ Convenient packing to match the VNA frequency extension

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	50		75
System Conversion Gain	dB	+10		
System Noise Figure	dB		13	16
IF Output Frequency	MHz		11.139	
LO Input Frequency	GHz	12.5		18.75
LO Input Power	dBm	+5		+10
Test Port Damage Level	dBm	+5		
Test Port Interface	-	WR-15 UG-385/U		
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)	-	290 x 120 x 90		

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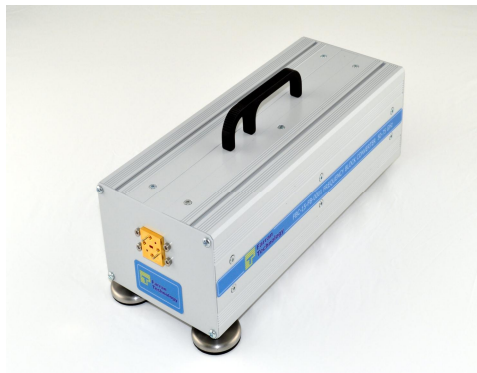
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Features

- ~ 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	40		60
System Conversion Gain	dB	+10		
System Noise Figure	dB		13	16
IF Output Frequency	MHz		11.139	
LO Input Frequency	GHz	10		15
LO Input Power	dBm	+5		+10
Test Port Damage Level	dBm	+5		
Test Port Interface	-	WR-19 UG-383/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)	-	290 x 120 x 90		

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Features

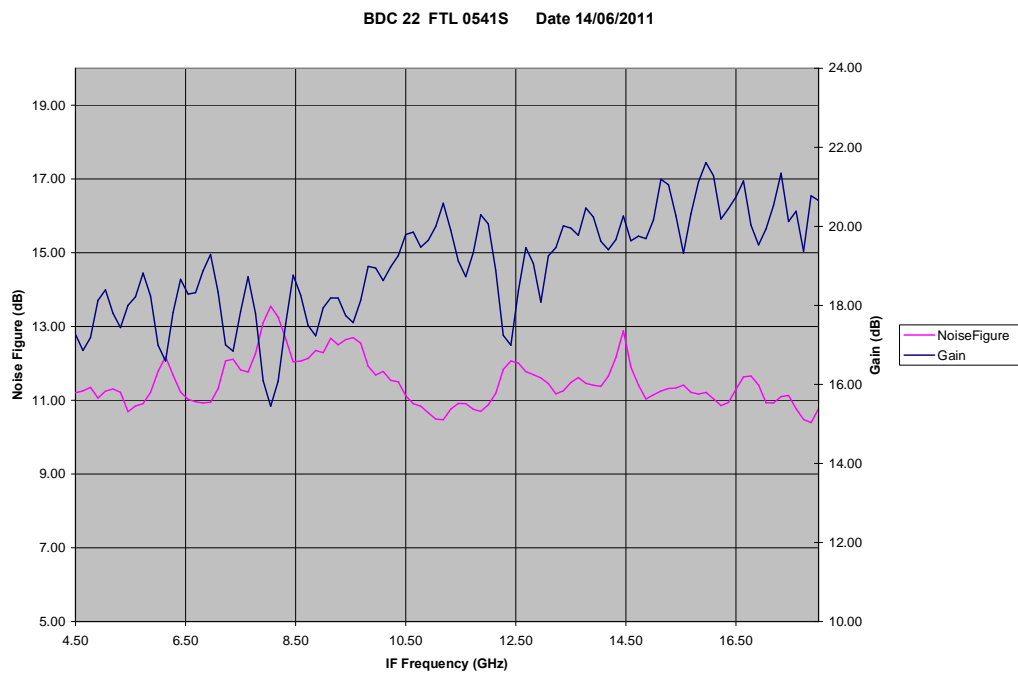
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- ~ Compatible with Agilent NFA
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- ~ Low noise figure for high system accuracy
- ~ Convenient packing to match the VNA frequency extension

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		

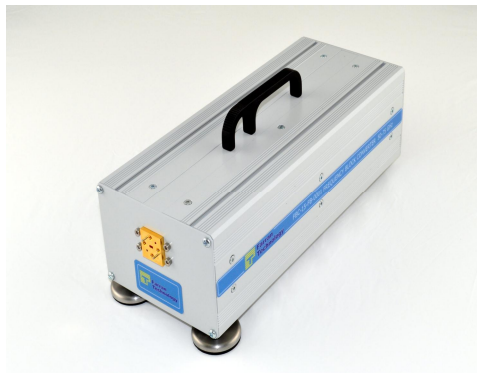
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Features

- ~ 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	26.5		40
System Conversion Gain	dB	+10		
System Noise Figure	dB		15	18
IF Output Frequency	MHz	4.5		18
Test Port Damage Level	dBm	+5		
Test Port Interface	-	WR-28 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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