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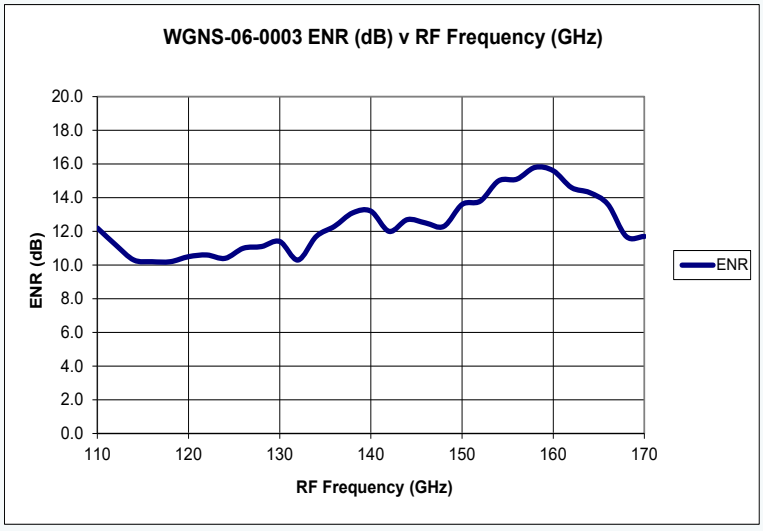
WR-06 Noise Source Enclosure Module 110-170 GHz: **WGNS-06-0003**

Farran Technology offers the WGNS series of noise sources to be used in conjunction with the FBC down converters for use as frequency extenders for noise figure measurement test system.

The WGNS-XX is a fullband noise source. The WGNS-06 covers the full D band 110 – 170 GHz.

Key Facts:

- Full waveguide band
- High ENR
- Uniform level of noise power spectral density
- Compatible with Keysight NFA and Keysight 'X' series VNA with noise figure personality
- 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	110	-	170
ENR	dB	-	11.5	-
ENR Flatness	dB	-	-	+/-2.0
Trigger Voltage	V	-	+28	-
Modulation Frequency	kHz	-	-	1
YSWR	-	-	-	1.4:1
Test Port Interface	-	WR-06 UG-387/U-M		
Trigger Connector	-	BNC (F)		
Power Requirements	-	240/110 V AC		
Weight (approx.)	kg	3.5		
Dimensions (L x W x H)	mm	200 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.