

STZ-05-IT2

WR-05 Noise Source with TTL, 15 dB ENR

STZ-05-IT2 is a WR-05 noise source that delivers 15 dB nominal ENR across the frequency range of 140 to 220 GHz. The RF port has WR-05 Waveguide with UG-387/U-M Compatible Anti-Cocking Flange and the DC bias port is equipped with a female BNC connector, which is readily available for standard noise figure meter and noise figure analyzer interfaces. The noise source is designed with improved port return loss for more reliable and accurate noise figure measurements. The module can work also in either CW or pulse AM mode up to 1 kHz depending on the driving signal. The noise source features TTL triggering signal port for automatic test systems and a toggle switch to manually turn the module on and off. A Calibration Certificate for ENR values will be included.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	140 GHz		220 GHz
ENR		15 dB	
ENR Flatness		±4 dB	
AM Modulation Rate		1 kHz	
Return Loss		15 dB	
DC Voltage	+15 V _{DC}	+28 V _{DC}	+30 V _{DC}
DC Current		60 mA	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification
RF Output Port	WR-05 Waveguide with UG-387/U-M Compatible Anti-Cocking Flange
Bias Port	BNC (F)
TTL Port	SMA (F)
Power Switch	Toggle
Material	Aluminum / Brass
Finish	Gold Plated
Outline	TZ-WG-A

ECCN

EAR99

FEATURES

- Precision Calibrated
- Excellent Return Loss

APPLICATIONS

- Test Lab
- Instrumentations

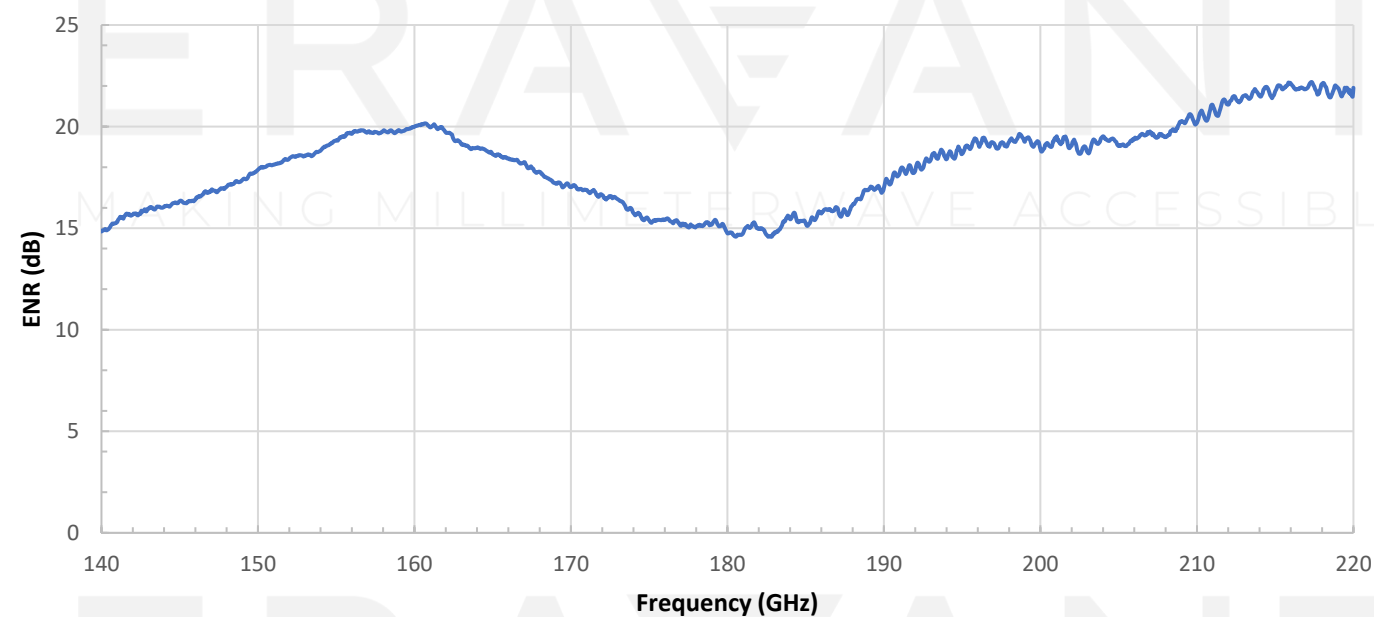


Included Accessory Components:

Item	Eravant Model Number	Quantity
Hex Torque Wrench	SCH-08008-S1	1
Waveguide Screwdriver, 3/32 Hex Head	SWH-332-DS	1
Waveguide Flange Hardware Kit		1
USB Flash Drive with Calibration/Test Data		1

Typical Noise Source Performance Plots :

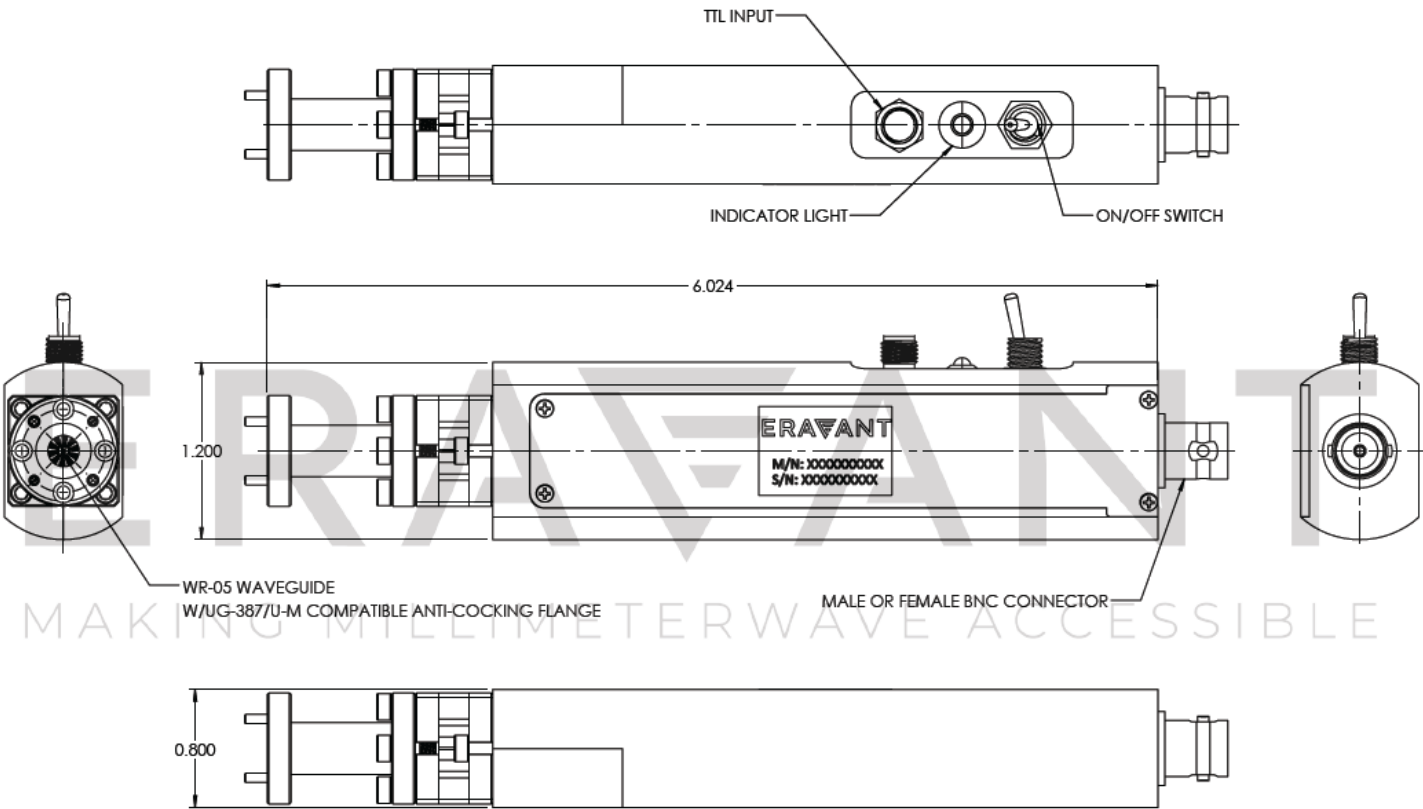
ENR v. Frequency



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Mechanical Outline:

Unless otherwise specified, all dimensions are in inches [millimeters]



Appendix: Case View with Included Components



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NOTE:

- The test data is provided it based on preliminary estimate. Actual data may vary after final build.
- The Power/Triggering Inversion Switch of the noise is provided to manually turn the noise source on and off any time the Bias is applied. When the switch is in the "ON" position, the LED light will be illuminated.
- All testing was performed under +25°C case temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.

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