WR-10 Noise Source with TTL, 13 dB ENR

STZ-10-0T2 is a WR-10 noise source that delivers 13 dB nominal ENR across the frequency range of 75 to 110 GHz. The RF port uses a WR-10 UG-383/U 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.
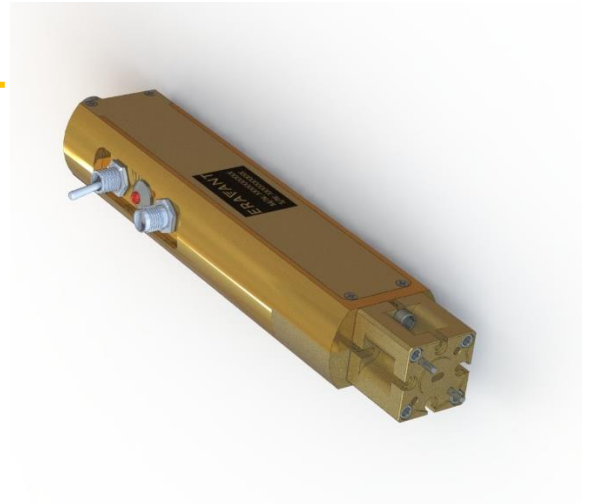
Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Input Frequency	75 GHz		110 GHz
ENR		13 dB	
ENR Flatness		±3 dB	
AM Modulation Rate		1 kHz	
Return Loss		15 dB	
DC Voltage		+28 V_{DC}	
DC Current		30 mA	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification
RF Output Port	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Bias Port	BNC (F)
TTL Port	SMA (F)
Power Switch	Toggle
Housing Material	Brass
Housing Finish	Gold Plated
Weight	9.2 Oz
Size	6.16" (L) x 1.20" (W) x 0.80"(H)
Outline	TZ-WW-A

ECCN

EAR99

FEATURES

- Full Waveguide Band Operation
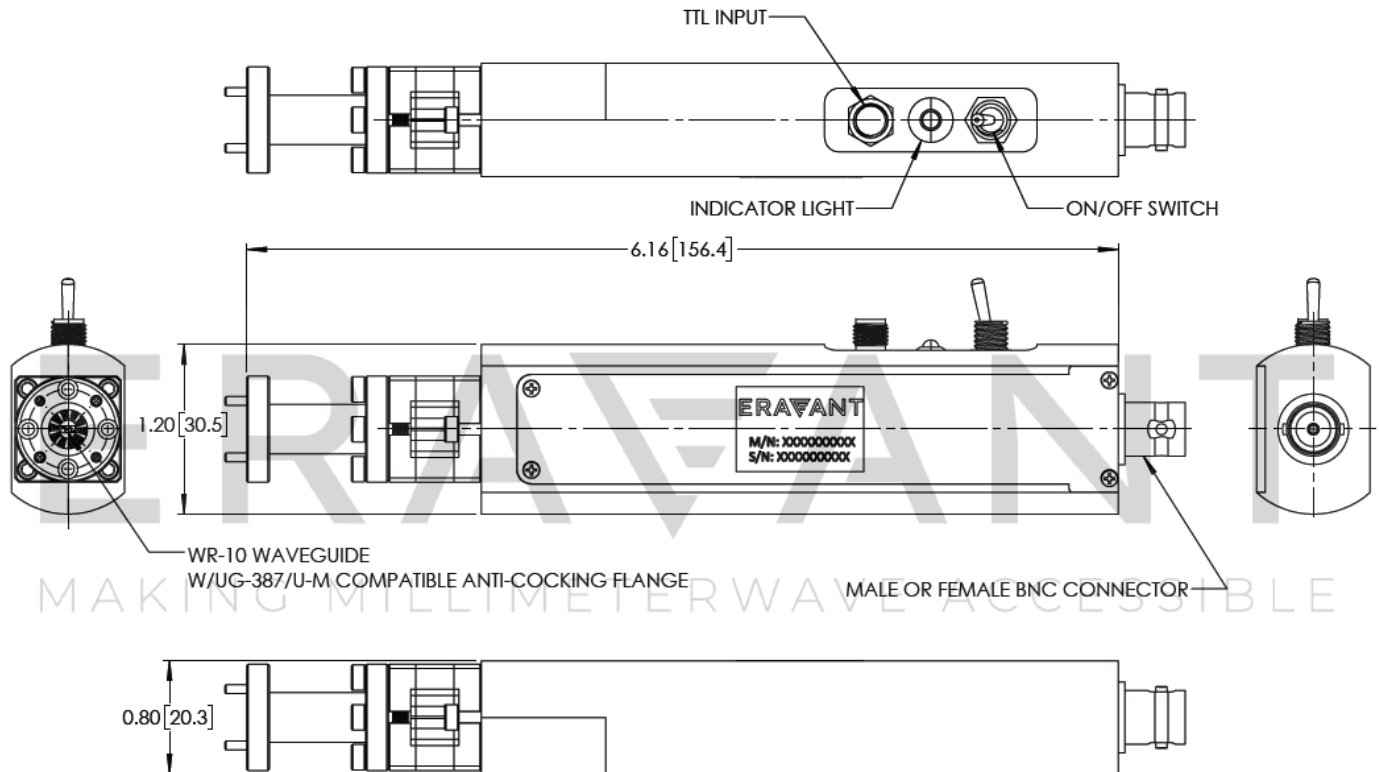- Precision Calibrated and Flat ENR
- Excellent Return Loss

APPLICATIONS

- Test Labs
- Instrumentations

Mechanical Outline:

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

NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model numbers.

CAUTION:

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