ST2-011063N10-SF-S1

SMA Coaxial White Gaussian Noise Generator, 0.01 to 6 GHz

ST2-011063N10-SF-S1 is white noise source generator that delivers total -10 dBm total noise power across the frequency range of 10 MHz to 6 GHz. The RF port uses a SMA (F) connector and the DC bias is on 12 V and 1.2A. Equipped with an 1-dB step attentuator from 0 dB to 10 dB overal. The noise source generator will be suitable for applications including system and component wireless testing, signal simulation, HDTV and CATV testing. The design is intended to be compact that will be suitable for rack installation or portable testing. The rotary attenuator is implemented to vary the output level.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	10 MHz		6 GHz
Output Power (at “0” Attenuation)	-12 dBm	-10 dBm	
Attenuation Level	0 dB		10 dB
Flatness		± 2.5 dB	± 4.5 dB
Return Loss		13 dB	
DC Voltage		+12 V_{DC}	
DC Current		1.2 A	
Specification Temperature		+25°C	
Operating Temperature	-20 °C		+75 °C

Mechanical Specifications:

Item	Specification
RF Output Port	SMA (F)
DC Power Receptacle	2.5 mm DC Jack Connector
Housing Material	Aluminum
Housing Finish	Black Anodized
Weight	2.13 lbs.
Size	5.00” (L) x 3.75” (W) x 1.90” (H) (Estimated)
Outline	T2-C

ECCN

EAR99

FEATURES

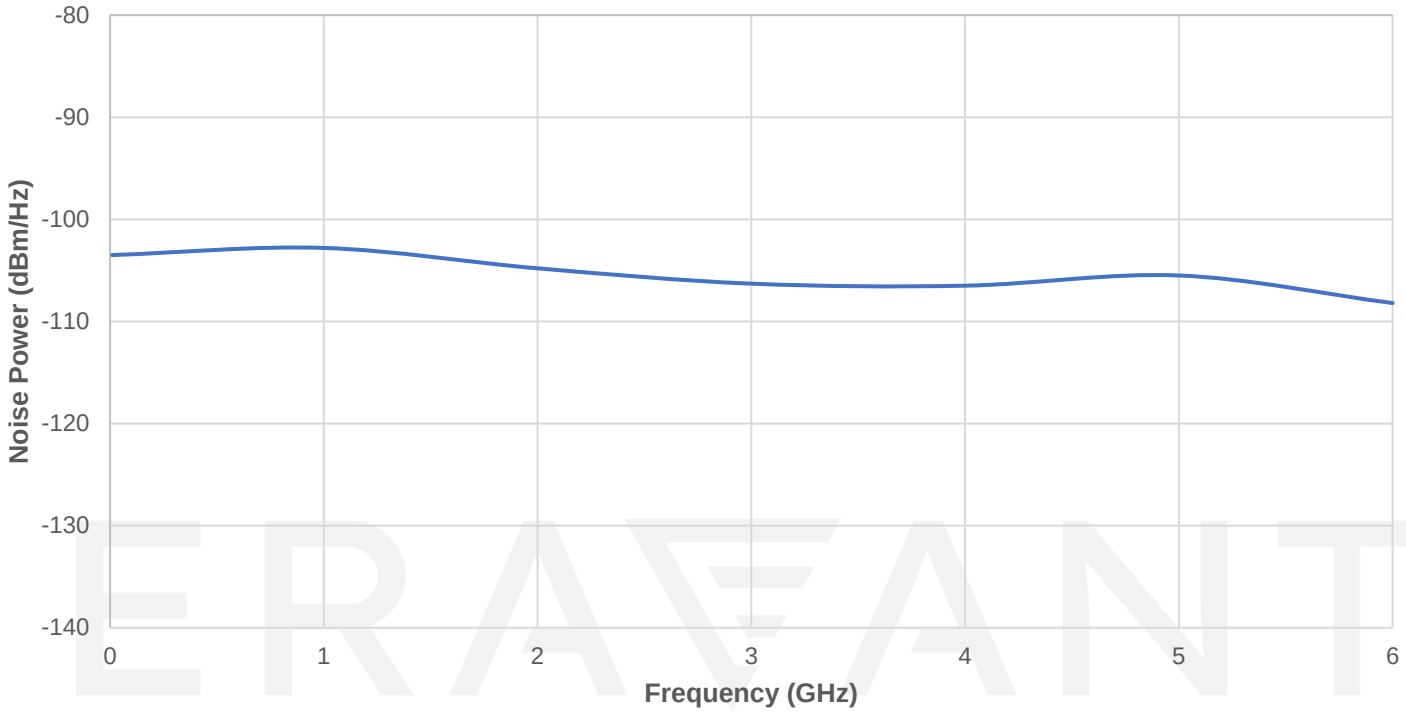
- 0.01 to 6 GHz Operation
- Adjustable Output Power
- Excellent Return Loss

APPLICATIONS

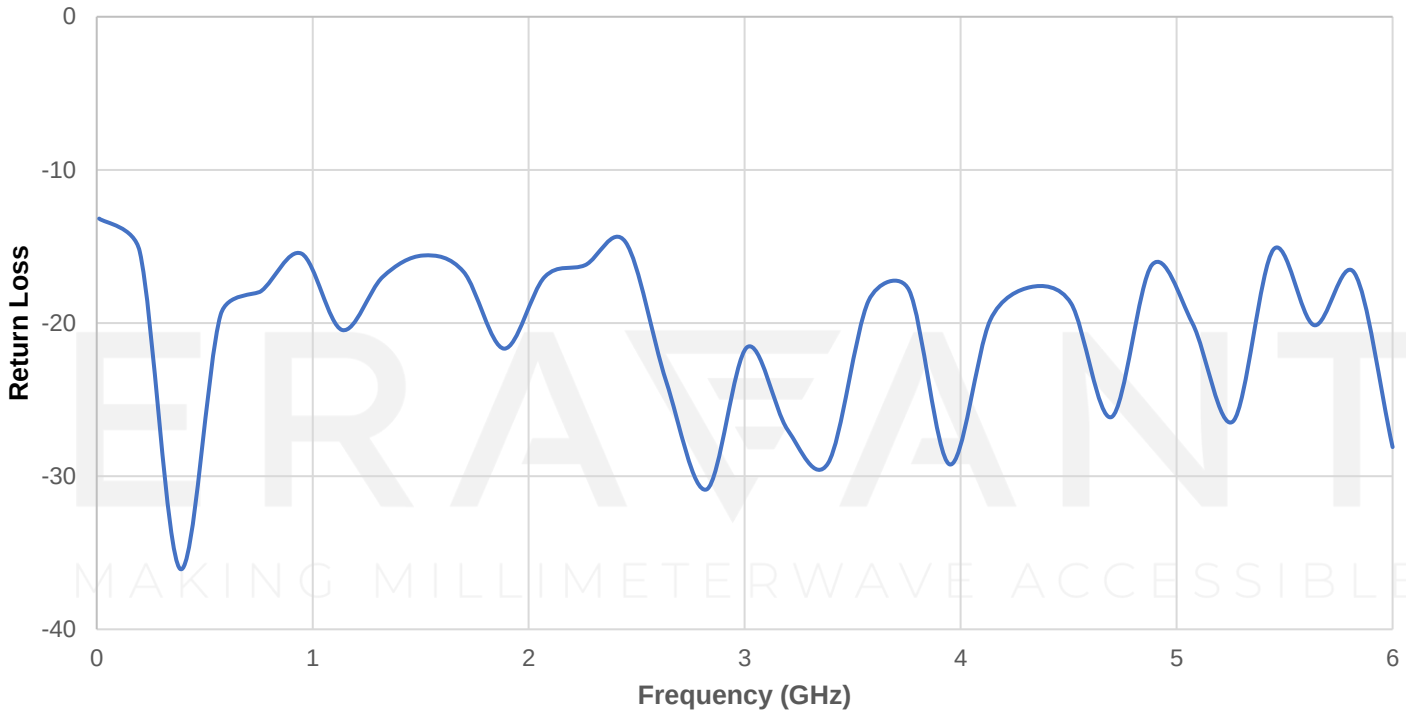
- Test Lab
- Instrumentation
- HDTV and CATV

SUPPLEMENTAL DETAILS

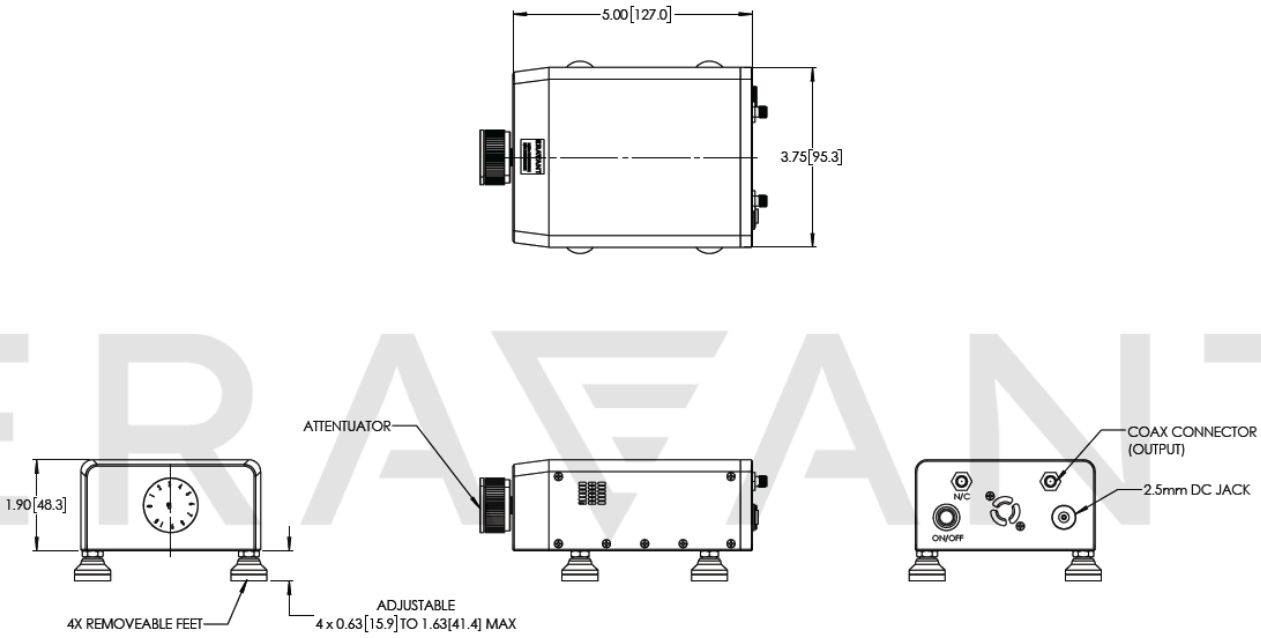
Output Power Flatness vs Frequency



Return Loss vs Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- Test data is collected from a sample lot. The ENR table may vary from unit to unit.
- All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- The device is static sensitive. Always follow ESD rules when working with the device.
- Exceeding absolute maximum ratings will damage the device.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**