

FEATURES

- ❖ Solid state noise source
- ❖ Full waveguide band
- ❖ High ENR with good flatness
- ❖ High stability
- ❖ Compatible with Agilent noise test set
- ❖ Compact size

APPLICATIONS

- ❖ Calibration source
- ❖ Noise figure measurement
- ❖ Test instrument

DESCRIPTION

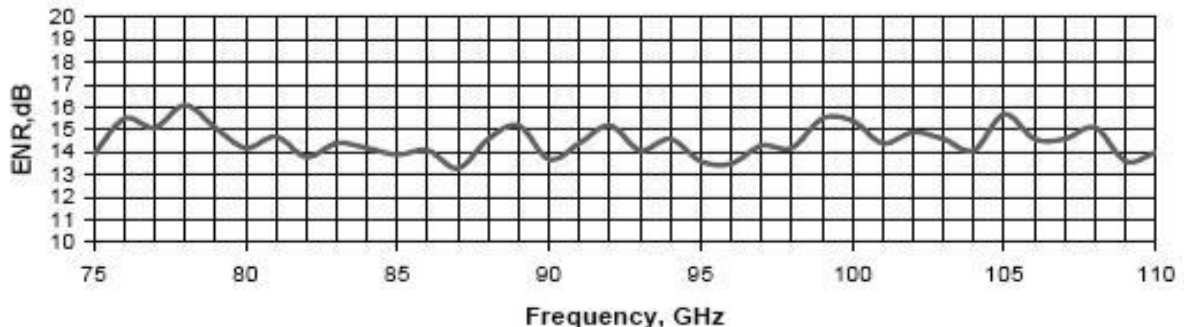
The **ONS Series** of solid state noise sources cover **full waveguide bands**. The noise sources offered cover the frequency range of 26.5 to 170 GHz in eight overlapping waveguide bands. The noise sources utilize a silicon IMPATT diode to provide a stable 15 dB typical ENR. The bias voltage and current for the noise source are +28 Vdc at 60 mA typical, which is compatible with the Agilent 8970A/B noise meters.

The standard noise sources are supplied with a full band Faraday isolator. While waveguide is the standard interface, the noise sources are also available with a coaxial interface by using the appropriate WiseWave PTC series waveguide to coax adapter up to 110 GHz.

SPECIFICATIONS

Model Number	Frequency (GHz)	ENR (dB, Typ)	Flatness (dB, Typ)	Bias Voltage (volts, Typ)	Bias Current (mA, Typ)	Waveguide Flange
ONS-28FF15-I1	26.5-40	15	±1.0	+28	60	WR-28, UG599/U
ONS-22FF14-I1	33-50	14	±1.5	+28	60	WR-22, UG383/U
ONS-19FF13- I1	40-60	13	±1.5	+28	60	WR-19, UG383/U Mod
ONS-15FF13- I1	50-75	13	±1.5	+28	60	WR-15, UG385/U
ONS-12FF13- I1	60-90	13	±1.5	+28	60	WR-12, UG387/U
ONS-10FF12- I1	75-110	12	±1.5	+28	60	WR-10, UG387/U Mod
ONS-08FF12- I1	90 to 140	12	±1.5	+28	60	WR-08, UG387/U Mod
ONS-06FF12- I1	110- to 170	12	±2.0	+28	60	WR-06, UG387/U Mod

Representative ENR (The ENR shown is without FFF-10-01 isolator)



ONS Series

Millimeterwave Solid State Noise Sources

Outline Drawing

OUTLINE DRAWING

