

## 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.

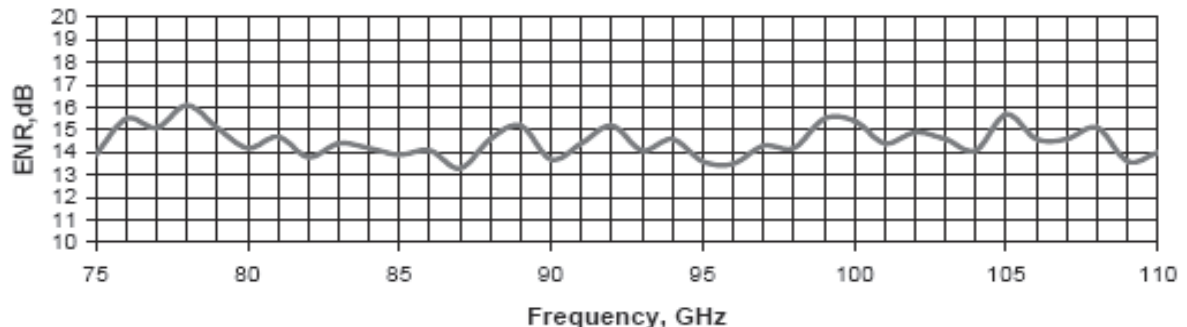


**ONS Series**

## SPECIFICATIONS

Model Number	Frequency (GHz)	ENR (dB, Typ)	Flatness (dB, Typ)	Bias Voltage (volts, Typ)	Bias Current (mA, Typ)	Waveguide Flange
ONS-28FF15-11	26.5-40	15	±1.0	+28	60	WR-28, UG599/U
ONS-22FF14-11	33-50	14	±1.5	+28	60	WR-22, UG383/U
ONS-19FF13- 11	40-60	13	±1.5	+28	60	WR-19, UG383/U Mod
ONS-15FF13- 11	50-75	13	±1.5	+28	60	WR-15, UG385/U
ONS-12FF13- 11	60-90	13	±1.5	+28	60	WR-12, UG387/U
ONS-10FF12- 11	75-110	12	±1.5	+28	60	WR-10, UG387/U Mod
ONS-08FF12- 11	90 to 140	12	±1.5	+28	60	WR-08, UG387/U Mod
ONS-06FF12- 11	110- to 170	12	±2.0	+28	60	WR-06, UG387/U Mod

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



**OUTLINE DRAWING**
