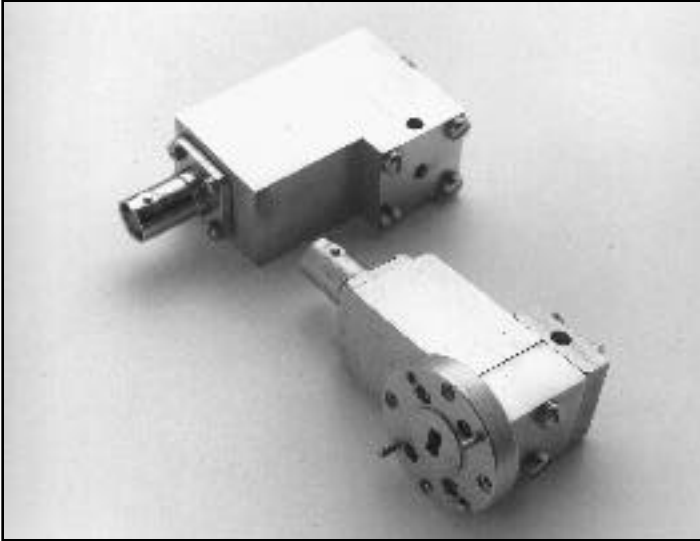


# WAVEGUIDE NOISE STANDARDS 12.4 TO 95GHz



## WAVEGUIDE OUTPUT CHARACTERISTICS FOR USE WITH NOISE FIGURE METERS

MODEL	FREQUENCY	RF OUTPUT EXCESS NOISE RATIO (dB)	FLATNESS		POWER REQUIREMENT MAX.	OUTPUT MATES WITH
			TYP.	MAX.		
NSI 1218W	12.4-18.0 GHz	15.5	±0.5	±0.75	+28V, 15mA	UG-419/U
NSI 1826W	18.0-26.5 GHz	15.5	±0.5	±0.75	+28V, 15mA	UG-595/U
NSI 2640W	26.5-40.0 GHz	15.5	±0.5	±0.75	+28V, 15mA	UG-599/U
NSI 51826W	18.0-26.5 GHz	25.0	±1.5	±2.0	+28V, 20mA	UG-595/U
NSI 52640W	26.5-40.0 GHz	23.0	±2.0	±3.0	+28V, 20mA	UG-599/U
NSI 53350W	33.0-50.0 GHz	21.0	±2.0	±3.0	+28V, 20mA	UG-383/U
NSI 5565W	55.0-65.0 GHz	23.0	±2.0	±3.0	+28V, 25mA	UG-385/U
NSI 9095W	90.0-95.0 GHz	15.0	±2.0	±2.0	+28V, 40mA	UG-387/U

## WAVEGUIDE OUTPUT CHARACTERISTICS FOR USE IN SYSTEMS

MODEL	FREQUENCY	RF OUTPUT EXCESS NOISE RATIO (dB)	FLATNESS (dB)	POWER REQUIREMENT MAX.	OUTPUT MATES WITH
NSI 7300W	29.7-30.3 GHz	23.0	±0.6	+28V, 20mA	UG-599/U
NSI 7315W	31.2-31.8 GHz	23.0	±0.6	+28V, 20mA	UG-599/U
NSI 7350W	34.7-35.3 GHz	23.0	±0.6	+28V, 20mA	UG-599/U

### DESCRIPTION

Waveguide Noise Standards are portable, hand-held "test tools" designed for use in the lab or in the field as part of the Automated Test Environment (ATE). Waveguide Noise Standards are compatible with noise figure meters and can be used to test a wide range of parameters. They are also designed to provide an internal calibration function in waveguide equipment and systems.

### SPECIFICATIONS

- n Operating Temperature: -55 to +95°C
- n Storage Temperature: -65 to +125°C
- n Supply Voltage: +28 VDC
- n Temperature Stability: .015 dB/°C
- n Output Impedance: 50 ohms
- n Peak Factor: 5:1

### APPLICATIONS

- n EMI Testing
- n Noise figure measurement

FOR OUTLINE DRAWINGS  
REFER TO PAGE 22