

Description

Mi-Wave's 870 Series Precision Calibrated Noise Sources are available in 18 to 110 GHz frequency ranges offering the best stability, switching speed and ripple-free response.

Notes

S/N: N/A

Electrical Specifications

	Minimal	Typical	Maximum
Frequency Range	50 GHz		75 GHz
ENR		15.5 dB	
ENR Flatness		±3.0 dB	
VSWR		1.6:1	
Noise Output Variation with Temperature			0.01dB/°C with Voltage
Noise Output Variation with Voltage			0.1 dB/1% DeltaV
Operating Temperature	0° C		85°C
Bias			28VDC @ 30mA

Physical Specifications

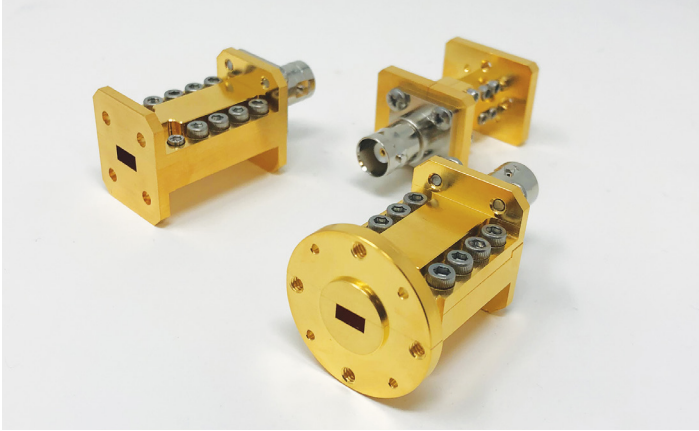
Output Port	WR-15 Waveguide with UG-385/U Flange
Input Connector	BNC Female
Material	Brass
Finish	Gold Plated



Tested by: NA

Date: 2020-09-04





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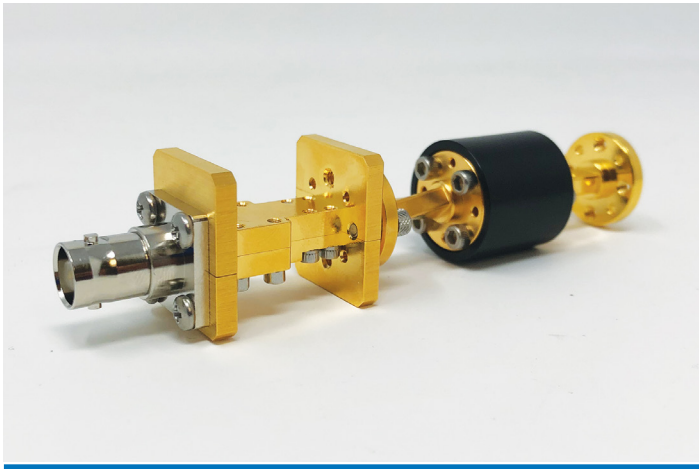
Mi-Wave's 870 Series Precision Calibrated Noise Sources are available in 18 to 110GHz frequency range offering the best stability, switching speed and ripple-free response over other brands.

Mi-Wave's 870 Series have tailored the response so ripple is minimized through the frequency range specified.

- *Low Noise'*
- *High Stability*
- *18 to 110 GHz*
- *Ripple Free*
- *Excellent Reliability*

Applications

- Noise Figure Measurement
- Radar Systems
- Radiometers
- Built In Test Equipment
- Telecommunications
- Military Applications
- 60GHz WiGig
- Small Cell Backhaul



*Noise Source attached with Series 115 Isolator

Technical Specifications (typical)							
Model No.	870K	870A	870B	870U	870V	870E	870W
Frequency (GHz)	18-26.5	26.5-40	33-50	40-60	50-75	60-90	75-110
Calibration Frequencies	1GHz Steps	1GHz Steps	1GHz Steps	1GHz Steps	1GHz Steps	1GHz Steps	1GHz Steps
Waveguide	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Noise Output ENR (dB)	25	15.5	15.5	15	15.5	15	13
Noise Output Flatness (dB)	± 1.0	± 1.5	± 1.5	± 2.0	± 3.0	± 4.0	± 5.0
Typical VSWR	1.3:1	1.3:1	1.3:1	1.3:1	1.6:1	1.6:1	1.6:1
Flange	UG595/U	UG599/U	UG383/U	UG383/U	UG385/U	UG387/U	UG387/U