

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	75 GHz		110 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-10 Waveguide with UG-387/U-M Flanges
Input Connector	BNC Female
Material	Brass
Finish	Gold Plated



Tested by: NA

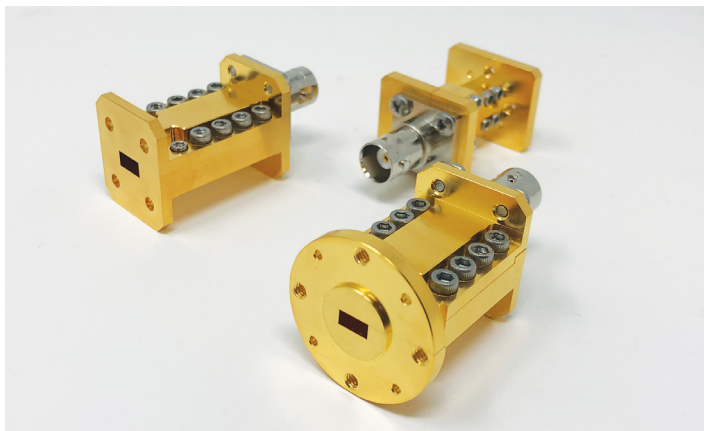
Date: 2020-09-04



Bias Conditions 28 VDC @11.2 mA

Frequency(GHz)	ENR (dB)
75	18.7
76	17.6
77	18.22
78	17.86
79	17.93
80	17.68
81	16.21
82	17.52
83	16.15
84	16.26
85	16.36
86	16.44
87	16.79
88	16.42
89	16.44
90	16.3
91	16.18
92	15.53
93	15.48
94	14.54
95	14.51
96	14.19
97	14.26
98	13.88
99	13.74
100	12.99
101	12.99
102	12.6
103	12.09
104	12.19
105	11.23
106	11.91
107	11.27
108	12.15
109	10.8
110	10.81





Description

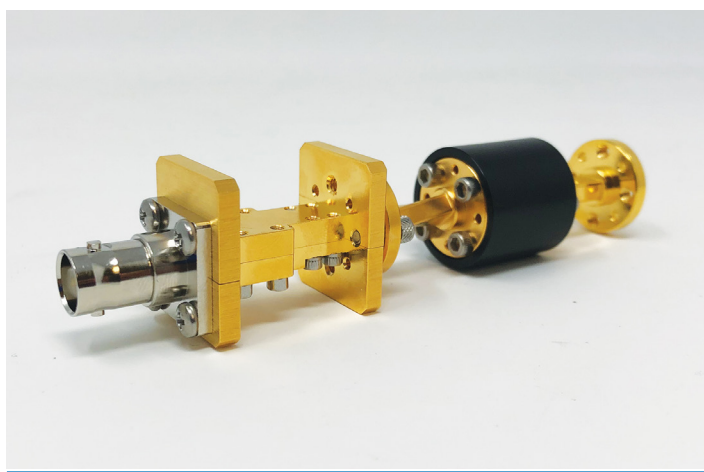
Mi-Wave's 870 Series Precision Calibrated Noise Sources are available in 18 to 110GHz frequency range offering the best stability, switching speed and ripple-free response over other brands.

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