CALIBRATED NOISE

SOURCES FOR

NOISE FIGURE

MEASUREMENTS

Noise Com's *NC346 Series* is designed for precision noise figure measurement applications. The VSWR has been improved, reducing multiple reflections of the test signals and significantly increasing the measurement accuracy of most noise figure set-ups.

The NC346 Series noise sources have broadband coverage and extremely good temperature and voltage stability, for the finest noise figure meter-compatible laboratory standards. Outputs of 6,

15.5 and 22 dB ENR are available, allowing the units to accurately measure noise figures up to 20, 30 and 36 dB respectively. Each NC346 is packaged in an attractive wooden

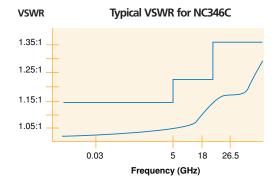
box for maximum protection during shipment.

General Specifications:

Calibration	1 GHz steps				
Temperature	Less than 0.009 dB/°C				
coefficient					
Operating	0°C to +55°C				
temperature					
Input power	+28 VDC ±2 VDC at				
	15 mA typical for				
	NC346 A, B & D				
VSWR	Less than 1.15:1 from				
	10 MHz — 5 GHz for				
	units with 5 – 7 dB or				
	14 –16 dB ENR				
Regulator	Built-in				
Voltage coefficient	Less than				
	0.002 dB/%∆V				

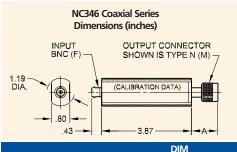
Specifications subject to change without notice.

The return loss of the noise sources is measured in both the on and off states and is included in the calibration report provided with each noise source up to 40 GHz. Each noise source is also supplied with calibration data traceable to NIST.

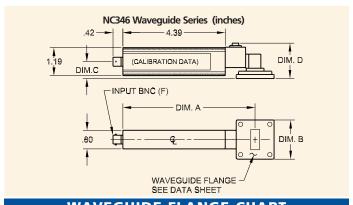








CONNECTOR	DIM A (in.)
SMA Male	0.50
APC 3.5 Male	0.50
N Male	1.14
APC 7	1.30
N Female	0.94
K Male	0.46
V Male	0.85



WAVEGUIDE FLANGE CHART						
WAVEGUIDE TYPE	DIM A (in.)	DIM B (in.)	DIM C (in.)	DIM D (in.)		
WR75	5.25	1.50 SQ	.98	1.60		
WR90	5.68	1.68 SQ	72	1.50		
WR229	6.02	3.87	1.10	2.09		

		NC34	16 CO	AXIAL	SERIE	S			
MODEL	RF CONNECTOR	FREQUENCY (GHz)	OUTPUT ENR (dB)	0.01 - 5 GHz	VSW 5 - 18 GHz	R (maximum @ 18 - 26.5 GHz	on/off) 26.5 - 40 GHz	40 - 60 GHz	I (max) (mA)
NC346A	SMA Male	0.01 - 18.0	5 - 7	1.15:1	1.25:1				30
NC346A Precision	APC3.5 Male	0.01 - 18.0	5 - 7	1.15:1	1.25:1				30
NC346A Option 1	N Male	0.01 - 18.0	5 - 7	1.15:1	1.25:1				30
NC346A Option 2	APC7	0.01 - 18.0	5 - 7	1.15:1	1.25:1				30
NC346A Option 4	N Female	0.01 - 18.0	5-7	1.15:1	1.25:1				30
NC346B	SMA Male	0.01 - 18.0	14 - 16	1.15:1	1.25:1				30
NC346B Precision	APC3.5 Male	0.01 - 18.0	14 - 16	1.15:1	1.25:1				30
NC346B Option 1	N Male	0.01 - 18.0	14 - 16	1.15:1	1.35:1				30
NC346B Option 2	APC7	0.01 - 18.0	14 - 16	1.15:1	1.25:1				30
NC346B Option 4	N Female	0.01 - 18.0	14 - 16	1.15:1	1.35:1				30
NC346C	APC3.5 Male	0.01 - 26.5	13 - 17	1.15:1	1.25:1	1.35:1			30
NC346D	SMA Male	0.01 - 18.0	19 - 25*	1.50:1	1.50:1				30
NC346D Precision	APC3.5 Male	0.01 - 18.0	19 - 25*	1.50:1	1.50:1				30
NC346D Option 1	N Male	0.01 - 18.0	19 - 25*	1.50:1	1.75:1				30
NC346D Option 2	APC7	0.01 - 18.0	19 - 25*	1.50:1	1.50:1				30
NC346D Option 3	N Female	0.01 - 18.0	19 - 25*	1.50:1	1.75:1				30
NC346E	APC3.5 Male	0.01 - 26.5	19 - 25*	1.50:1	1.50:1	1.50:1			30
NC346Ka	K Male**	0.10 - 40.0	10 - 17	1.25:1	1.30:1	1.40:1	1.50:1		30
NC346V	V Male***	0.10 - 55.0	7 - 21	1.50:1	1.50:1	1.75:1	2.00:1	2.50:1	30

^{*} Flatness better than ±2 dB

NC346 WAVEGUIDE SERIES WITH BUILT-IN ISOLATOR*								
MODEL	FLANGE	FREQUENCY (GHz)	ENR (dB)	VSWR (on/off)	I (max) (mA)			
NC346B-WR229	CPR229F	3.7 - 4.2	14 - 16**	1.20:1	30			
NC346B-WR90	UG39/U	8.5 - 9.6	14 - 16**	1.20:1	30			
NC346B-WR75	UBR120	10.5 - 13.0	14 - 16**	1.20:1	30			

^{*} Inquire for other flanges or waveguide sizes

^{**} Flatness better than ±0.15 dB