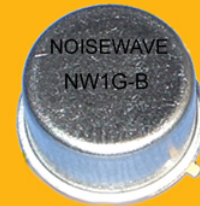
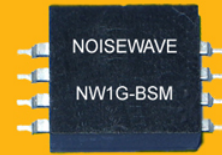




BITE (BUILT-IN TEST) NOISE MODULES

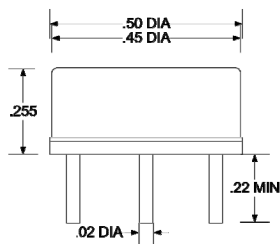


Specifications:

Operating temperature:	-40°C to +85°C (surface mount) -55°C to +125°C (drop-in)
Temperature coefficient:	0.01 dB/°C
Storage Temperature:	-65°C to +150°C
Output:	White Gaussian noise
Minimum power:	(-143 dBm/Hz) 31 dB ENR (-123 dBm/Hz) 51 dB ENR (-109 dBm/Hz) 65 dB ENR
Crest factor:	5:1
Supply current:	0.2 to 5 mA 31 dB ENR 10 to 25 mA 51 dB ENR 20 to 30 mA 65 dB ENR
Packaging:	Drop-in or surface mount
Input Voltage:	+12Vdc, +15Vdc or +28Vdc
Supply sensitivity:	0.1 dB/%ΔV
Absolute maximum input voltage:	+40V for +28V models +30V for +15V models +24V for +12V models

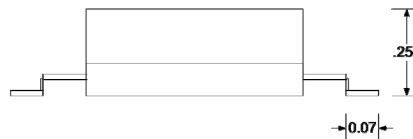
Specifications subject to change without notice.

NW-B TO8
Dimensions (inches)

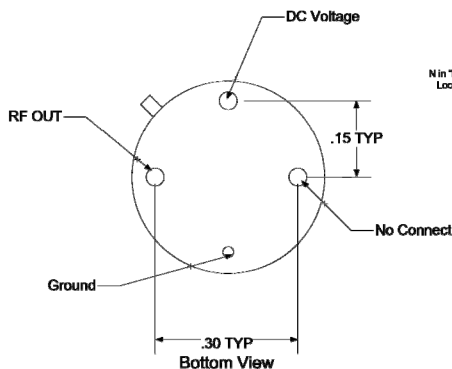


Side View

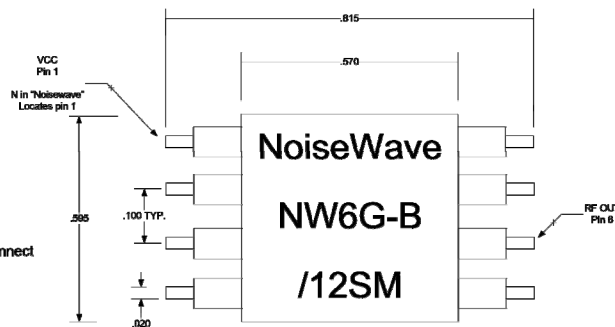
NW-B SM
Dimensions (inches)



Side View



Bottom View



All other Pins are Ground

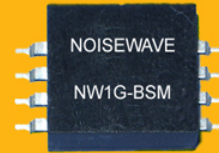
Top View

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REV: C
9/2016



BITE (BUILT-IN TEST) NOISE MODULES



Applications for these modules include built-in test equipment, dithering for increased dynamic range of A/D converters, and as an economical source for bit error rate testing.

The unit comes in an industry standard package and is available in either TO-8 or SM pin packages. Utilizing small internal parts count the unit is economically priced and delivery is typically from stock.

MODEL (+12VDC)	MODEL (+15VDC)	MODEL (+28VDC)	FREQUENCY RANGE	FLATNESS (dB)	ENR (dB)	RL (Ω)	I (mA)
NW5M-B/12	NW5M-B/15	NW5M-B	200kHz - 500MHz	+/- 0.50 max	31	50	10 max
NW1G-B/12	NW1G-B/15	NW1G-B	200kHz - 1 GHz	+/- 1.00 max	31	50	10 max
NW2G-B/12	NW2G-B/15	NW2G-B	200kHz - 2 GHz	+/- 1.5 max	31	50	10 max
NW3G-B/12	NW3G-B/15	NW3G-B	200kHz - 3 GHz	+/- 1.5 max	31	50	10 max
NW4G-B/12	NW4G-B/15	NW4G-B	200kHz - 4 GHz	+/- 2.0* max	31	50	10 max
NW5G-B/12	NW5G-B/15	NW5G-B	200kHz - 5 GHz	+/- 2.5* max	31	50	10 max
NW5M-AB/12	NW5M-AB/15	NW5M-AB	200kHz - 500 MHz	+/- 2.0 max	51	50	25 max
NW1G-AB/12	NW1G-AB/15	NW1G-AB	200kHz - 1 GHz	+/- 2.0 max	51	50	25 max
NW2G-AB/12	NW2G-AB/15	NW2G-AB	200kHz - 2 GHz	+/- 2.0 max	51	50	25 max
NW3G-AB/12	NW3G-AB/15	NW3G-AB	200kHz - 3 GHz	+/- 2.0 max	51	50	25 max
NW5M-HAB/12	NW5M-HAB/15	NW5M-HAB	5 MHz - 500 MHz	+/- 2.0 max	65	50	30 max
NW1G-HAB/12	NW1G-HAB/15	NW1G-HAB	5 MHz - 1 GHz	+/- 2.0 max	65	50	30 max

NOTES:

Add SM to model number for surface mount package.
TO-8 is standard package.

* Flatness is +/- 4.0 for SM Series

NoiseWave offers additional standard models as well as custom designs. Contact the factory to discuss your specific requirements.

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