RF AMPLIFIER
MODEL *WN6160*

Available as: WN6160, 10 Pin .625"Sq. Gullwing (SG4)
BX6160, Connectorized Housing

Features

- High Gain: 28 dB Typical
- Low Noise Figure: <2 dB Typical
- Operating Temp. -55ºC to +85ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º C

Second Order Harmonic Intercept Point ..... +51 dBm (Typ.)
Second Order Two Tone Intercept Point ..... +46 dBm (Typ.)
Third Order Two Tone Intercept Point ..... +32 dBm (Typ.)

Specifications

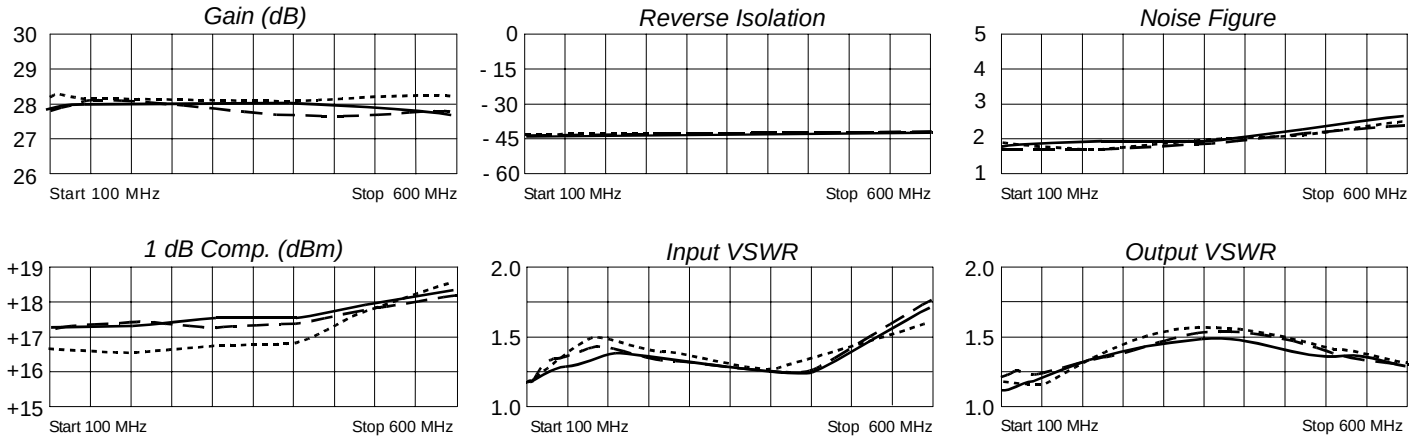
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	100 - 600 MHz	100 - 600 MHz
Gain (dB)	28	26 Min.
Power @ 1 dB Comp. (dBm)	+17	+16 Min.
Reverse Isolation (dB)	-43	-40 Max.
VSWR In	<1.75:1	2.0:1 Max.
Out	<1.75:1	2.0:1 Max.
Noise Figure (dB)	<2	3 Max.
Power Vdc	+15	+15
mA	65	75 Max.

Note: Care should always be taken to effectively ground the case of each unit.

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 18 Volts
Continuous RF Input Power ..... + 10 dBm
Short Term RF Input Power.... 20 Milliwatts (1 Minute Max.)
Maximum Peak Power..... 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— *+ 25 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

Linear S-Parameters

FREQ.	S11		S21		S12		S22	
MHz	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
50	.12	-168	25.49	-17	.01	-16	.13	-17
100	.16	-158	25.77	-48	.01	-51	.16	-50
200	.21	-175	25.09	-103	.01	-105	.20	-94
300	.16	175	24.57	-156	.01	-159	.22	-121
400	.15	-159	24.23	150	.01	162	.22	-145
500	.25	-176	24.57	93	.01	127	.17	-166
600	.31	115	25.28	28	.01	75	.08	-161

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