

RF AMPLIFIER

MODEL WN3105

Available as: WN3105, 10 Pin 0.625" Sq. Gullwing (SG4)
 BX3105, Connectorized Housing

Features

- High Output Power: +28 dBm Typical
- High Third Order I.P: +44 dBm Typical
- Operating Temp. - 55 °C to +85 °C

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +81 dBm (Typ.)
 Second Order Two Tone Intercept Point +75 dBm (Typ.)
 Third Order Two Tone Intercept Point +44 dBm (Typ.)

Specifications

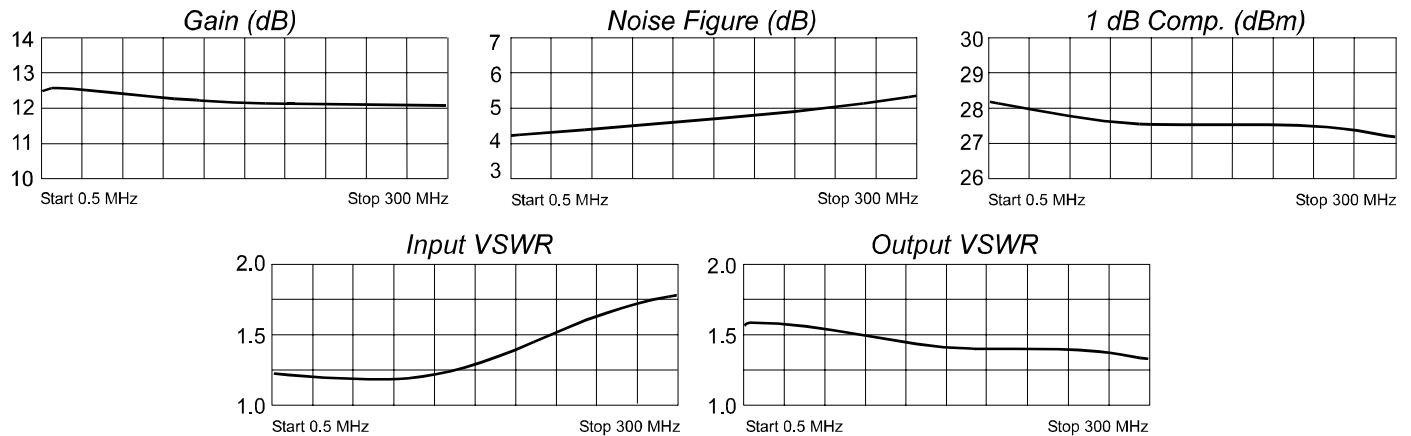
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	0.5 - 300 MHz	0.5 - 200 MHz
Gain (dB)	12.0	10.0 Min.
Power @ 1 dB Comp. (dBm)	28.0	27.0 Min.
Gain Flatness (dB)	<±0.5	±0.7 Max.
VSWR In	<1.5:1	1.9:1 Max.
VSWR Out	<1.5:1	1.9:1 Max.
Noise Figure (dB)	4.5	5.7 Max.
Power Vdc	+15	+15
mA	235	260 Max.

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +17 Volts
 Continuous RF Input Power +20 dBm
 Short Term RF Input Power..... 200 Milliwatts (1 MinuteMax.)
 Maximum Peak Power..... 0.5 Watt (3 µsec Max.)

* Measured in a 50-Ohm system at +15 Vdc unless otherwise specified.

Typical Performance Data



Legend ——— +25 °C

