

RF AMPLIFIER

MODEL PN7253

Available as: PN7253, 4 Pin .375" x .375" Sq. Surface Mount (SM11)

Features

- High Gain: 32.0 dB Typical
- Low +5 Volt Supply
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +29 dBm (Typ.)
 Second Order Two Tone Intercept Point +23 dBm (Typ.)
 Third Order Two Tone Intercept Point +14 dBm (Typ.)

Specifications

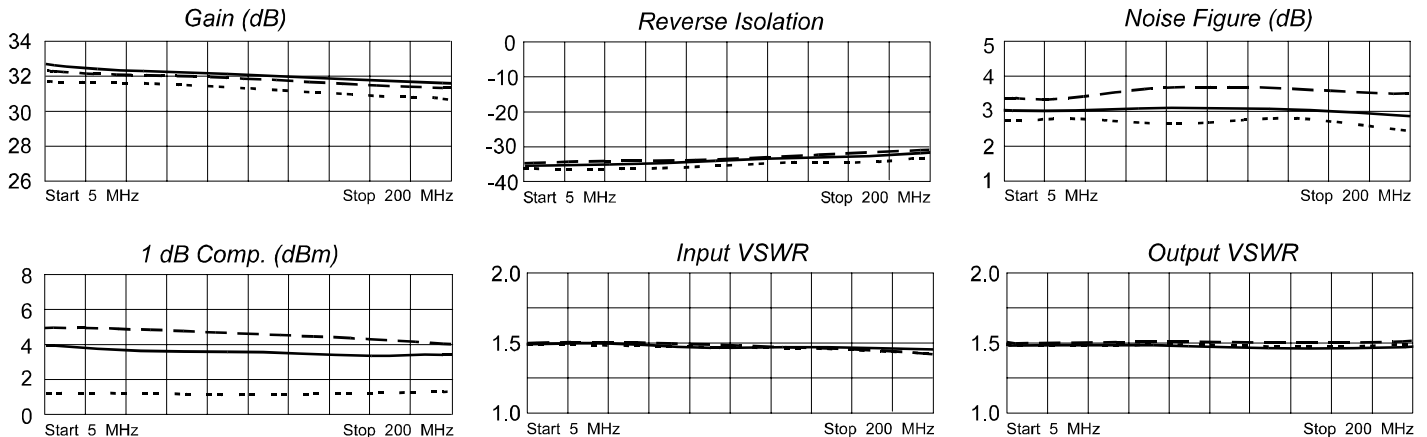
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 200 MHz	5 - 200 MHz
Gain (dB)	32.0	28.0 Min.
Power @ 1 dB Comp. (dBm)	+3.0	-2.0 Min.
Reverse Isolation (dB)	-35	-30 Max.
VSWR In	1.5:1	2.0:1 Max.
VSWR Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	3.0	4.0 Max.
Power Vdc	+5	+5
mA	30	40 Max.

Maximum Ratings

Ambient Operating Temperature -55°C to + 125 °C
 Storage Temperature -62°C to + 150 °C
 Operating Case Temperature + 125 °C
 DC Voltage + 8 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

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

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C ······ -55 °C



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