

RF AMPLIFIER

MODEL *FP6146*

Available as: FP6146, 10 Pin Flatpack W/Flange

Features

- High Gain: 21.0 dB Typical
- High Output Power: +21.0 dBm Typical
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 500 MHz	10 - 500 MHz
Gain (dB)	21.0	20.0 Min.
Power @ 1 dB Comp. (dBm)	+21.0	+20.0 Min.
Reverse Isolation (dB)	-30	-28 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	4.5	5.5 Max.
Power Vdc	+15	+15
mA	130	140 Max.

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

Typical Intermodulation Performance at 25 ° C

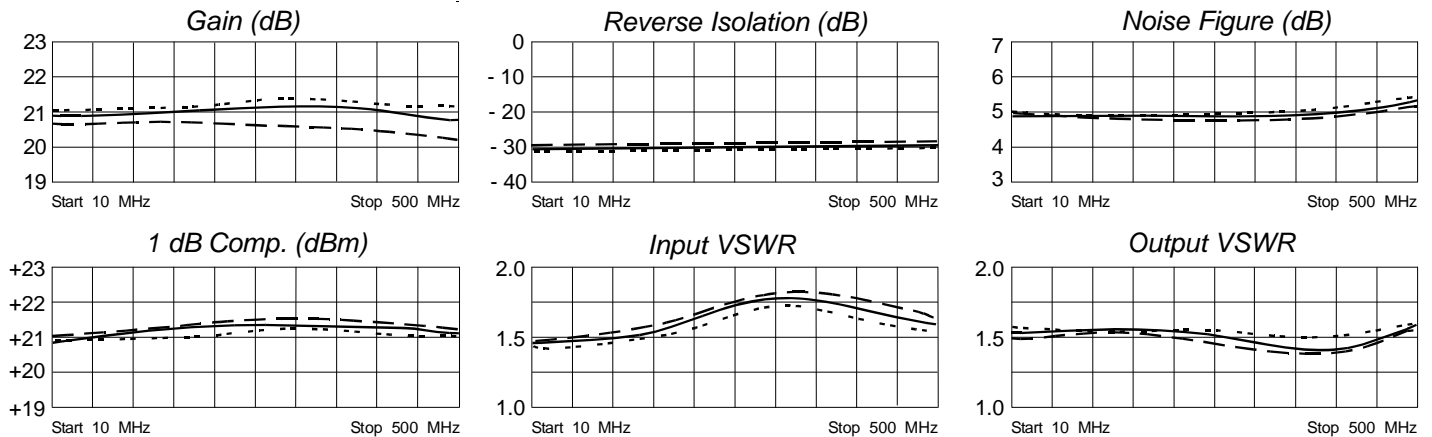
Second Order Harmonic Intercept Point.....+51 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+45 dBm (Typ.)
 Third Order Two Tone Intercept Point..... +34 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 18 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power..... 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power..... 0.5 Watt (3 µsec Max.)

Revision 5/31/2012

Typical Performance Data



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



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