

RF AMPLIFIER

MODEL *TM5137*

Available as: TM5137, 4 Pin TO-8 (T4)
 TN5137, 4 Pin Surface Mount (SM3)
 FP5137, 4 Pin Flatpack (FP4)
 BX5137, Connectorized Housing (H1)

Features

- High Out put Power: +22.5 dBm Typical
- High Third Order Intercept: +39
- 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 - 200 MHz	10 - 200 MHz
Gain (dB)	12.7	12.7 ± 0.5
Power @ 1 dB Comp. (dBm)	+22.5	+20.5 Min.
Reverse Isolation (dB)	- 18	-17.0 Max.
VSWR In	<1.6:1	2.0:1 Max.
VSWR Out	<1.75:1	2.0:1 Max.
Noise figure (dB)	<3.5	4.2 Max.
Power Vdc	+15	+15
mA	75	80 Max.

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

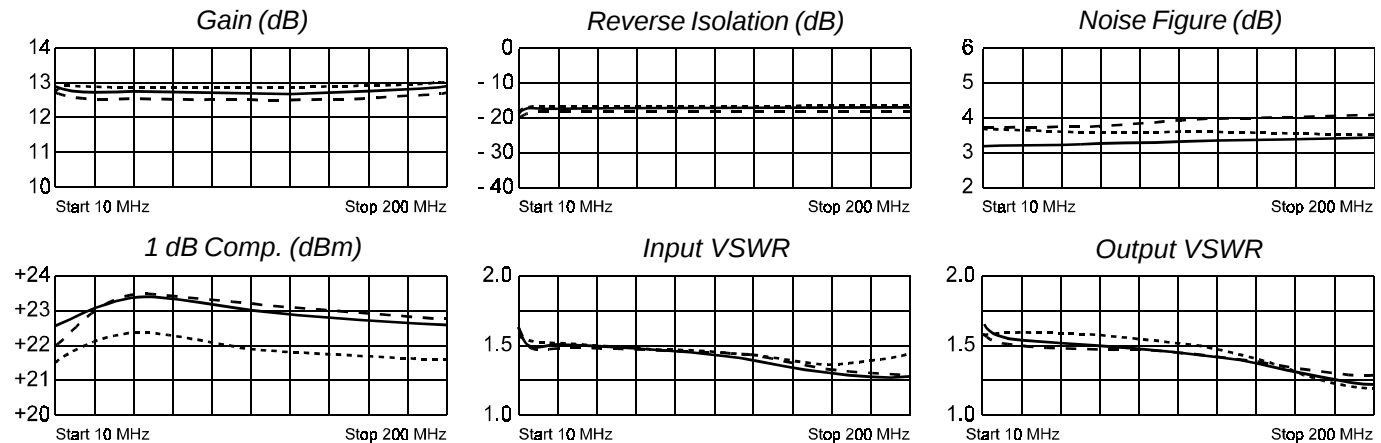
Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +58 (Typ.)
 Second Order Two Tone Intercept Point +53 (Typ.)
 Third Order Two Tone Intercept Point +39 (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 18Volts
 Continuous RF Input Power + 18 dBm
 Short Term RF Input Power 100 Milliwatts
 (1 Minute Max.)
 Maximum Peak Power 0.2 Watt
 (3 µsec Max.)

Typical Performance Data



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

Linear S-Parameters

FREQ. MHz	--- S11 --- Mag. Deg.	--- S21 --- Mag. Deg.	--- S12 --- Mag. Deg.	--- S22 --- Mag. Deg.
10	.22 -144	4.38 -175	.12 -179	.26 -12
40	.19 -167	4.33 164	.12 162	.23 -31
50	.19 -169	4.33 158	.12 157	.23 -38
100	.17 -169	4.32 135	.12 133	.21 -68
150	.14 -159	4.37 111	.12 110	.17 -89
200	.14 -127	4.43 85	.13 86	.12 -85

Amplifonix

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