

RF AMPLIFIER

MODEL *TM6557*

Available as: TM6557, 4 Pin TO-8 (T4)
 TN6557, 4 Pin Surface Mount (SM3)
 FP6557, 4 Pin Flatpack (FP4)
 BX6557, Connectorized Housing (H1)

Features

- Gain: 15 dB Typical
- Power Output: +15 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)	15	13.5 Min.
Power @ 1 dB Comp. (dBm)	+15.5	+14.0 Min.
Reverse Isolation (dB)	-18	-16 Max.
VSWR In	1.20:1	2.0:1 Max.
Out	1.25:1	2.0:1 Max.
Noise figure (dB)	4.5	6.5 Max.
Power Vdc	+15	+15
mA	44	48 Max.

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

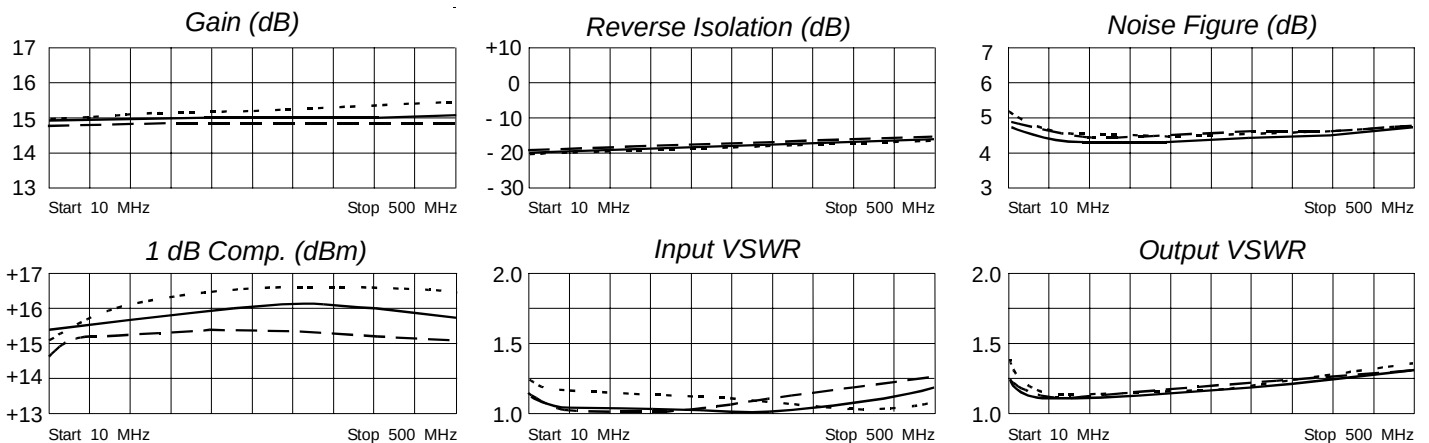
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +45 dBm (Typ.)
 Second Order Two Tone Intercept Point +38 dBm (Typ.)
 Third Order Two Tone Intercept Point +30 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.)

Typical Performance Data



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

Linear S-Parameters

FREQ. MHz	----S11----		----S21----		----S12----		----S22----	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
10	.08	-85	5.61	-175	.11	8	.11	129
100	.02	166	5.64	165	.11	2	.05	135
200	.01	121	5.61	148	.11	2	.06	107
300	.03	-39	5.58	132	.12	3	.07	89
400	.06	-80	5.62	116	.13	-2	.09	63
500	.11	-96	5.62	99	.14	-2	.12	55



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532 11/15/04

www.spectrummicrowave.com Spectrum Microwave (Europe) · 2707 Black Lake Place · Philadelphia, Pa. 19154 · PH (215) 464-4000 · Fax (215) 464-4001