

RF AMPLIFIER

MODEL *TM6572*

Available as: TM6572, 4 Pin TO-8 (T4)
 TN6572-3, 4 Pin Surface Mount (SM3)
 FP6572-4, 4 Pin Flatpack (FP4)
 BX6572, Connectorized Housing (H1)

Features

- High Efficiency: +13 dBm Typ. @ 150 mW DC
- Low Voltage: +5 volt Bias
- Operating Temp. - 55 °C to +85 °C

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +44 (Typ.)
 Second Order Two Tone Intercept Point +38 (Typ.)
 Third Order Two Tone Intercept Point +27 (Typ.)

Specifications

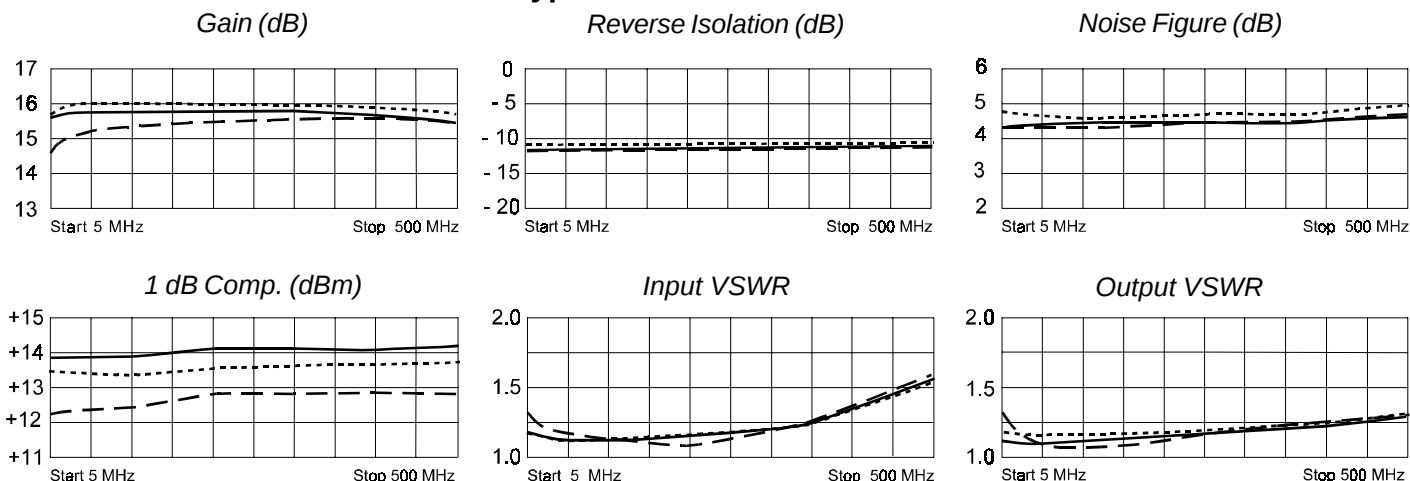
CHARACTERISTIC		TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency		5 - 500 MHz	5 - 500 MHz
Gain (dB)		14.7	13.5 Min.
Power @ 1 dB Comp. (dBm)		+13	+11 Min.
Reverse Isolation (dB)		- 18	- 16 Max.
VSWR	In	<1.25:1	2.0:1 Max.
	Out	<1.25:1	2.0:1 Max.
Noise figure (dB)		<4	5.5 Max.
Power	Vdc	+5	+5
	mA	30	35 Max.

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

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 10 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 200 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
5	.10	-137	5.40	-173	.11	-8	.09	145
50	.09	178	5.48	172	.12	1	.05	179
100	.08	175	5.48	163	.12	1	.05	-170
200	.08	171	5.48	146	.12	2	.08	-162
300	.07	168	5.47	129	.13	1	.10	-164
400	.06	-180	5.47	111	.13	1	.14	179
500	.08	-165	5.46	93	.14	-1	.18	163

Amplifonix

2707 Black Lake Place, Philadelphia, PA 19154

TEL 215-464-4000 ···· FAX 215-464-4001