

RF AMPLIFIER

MODEL *TM6572*

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

Features

- Low +5 Volt Supply
- Environmental Screening Available
- Operating Temp. - 55 °C to +85 °C

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 Out	<1.25:1 <1.25:1	2.0:1 Max. 2.0:1 Max.
Noise figure (dB)	<4	5.5 Max.
Power Vdc mA	+5 30	+5 35 Max.

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

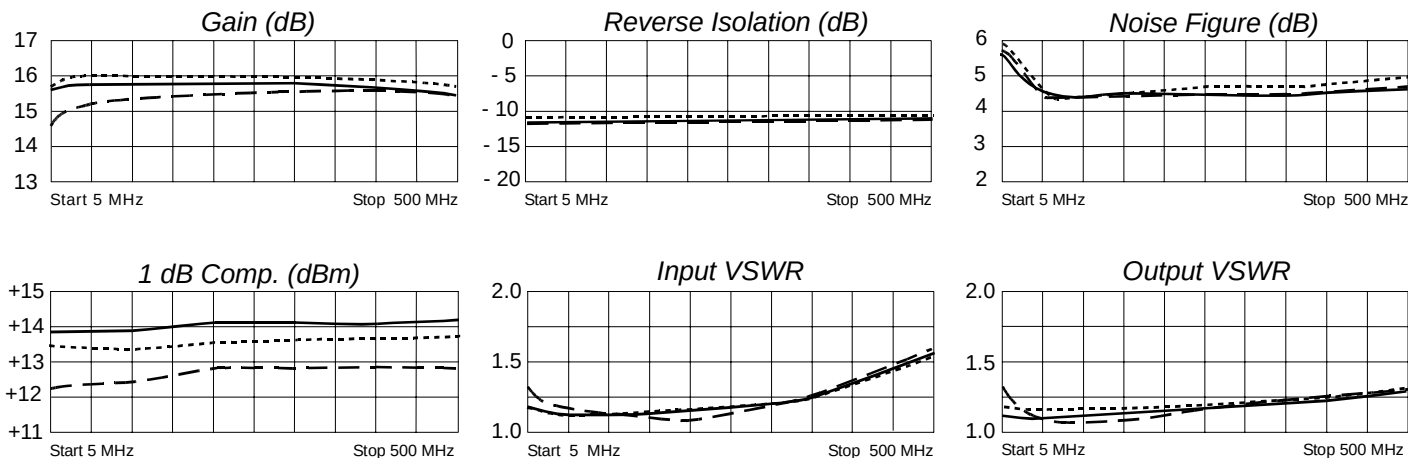
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +44 dBm (Typ.)
 Second Order Two Tone Intercept Point +38 dBm (Typ.)
 Third Order Two Tone Intercept Point +27 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 + 10 Volts
 Continuous RF Input Power + 10 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



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