RF AMPLIFIER MODEL *TM6672*

Available as: TM6672, 4 Pin TO-8 (T4)
TN6672, 4 Pin Surface Mount (SM3)
FP6672, 4 Pin Flatpack (FP4)
BX6672,Connectorized Housing (H1)

Features

- High Efficiency: +13 dBm Typ. @ 270 mW DC
- Low Noise Figure: <4.5 dB Typical
- Operating Temp. - 55 ºC to +85 ºC
- Environmental Screening Available

Typical Intermodulation Performance at 25 º 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.)

Specifications

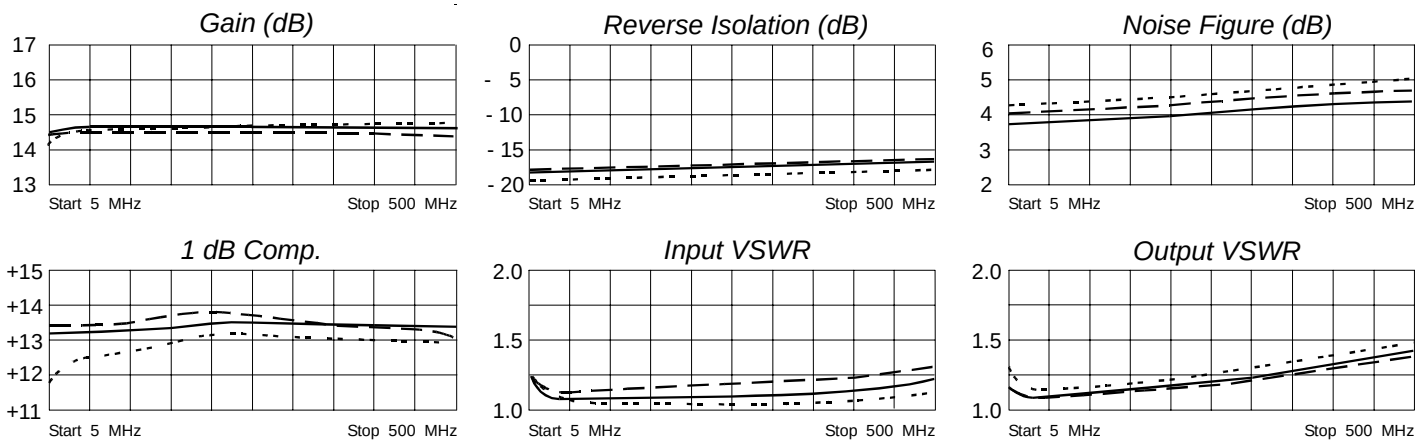
CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = -55 ºC to +85 ºC
Frequency	5 - 500 MHz	5 - 500 MHz
Gain (dB)	14.7	13.5 Min.
Power @ 1 dB Comp. (dBm)	+13	+11.0 Min.
Reverse Isolation (dB)	-18	-16 Max.
VSWR In Out	<1.25:1 <1.25:1	2.0:1 Max. 2.0:1 Max.
Noise figure (dB)	4.0	5.5 Max.
Power Vdc mA	+9 30	+9 35 Max.

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

Maximum Ratings

Ambient Operating Temperature ..... -55ºC to + 100 ºC
Storage Temperature ..... -62ºC to + 125 ºC
Case Temperature ..... + 125 ºC
DC Voltage ..... + 12 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 ºC* – – – *+ 85 ºC* - - - - - - *-55 ºC*

Linear S-Parameters

FREQ. MHz	S11 Mag	S11 Deg	S21 Mag	S21 Deg	S12 Mag	S12 Deg	S22 Mag	S22 Deg
5	.12	-129	5.57	-171	.11	10	.14	138
50	.09	170	5.68	172	.11	1	.06	163
100	.09	150	5.66	163	.11	- 1	.06	169
200	.10	119	5.63	146	.11	- 4	.05	167
300	.10	89	5.57	129	.12	- 7	.04	-177
400	.11	61	5.55	112	.12	- 10	.04	-152
500	.11	34	5.54	94	.12	- 14	.07	-145
600	.11	- 2	5.54	76	.12	- 17	.09	-154

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