

RF AMPLIFIER

MODEL *TM6555*

Available as: TM6555, 4 Pin TO-8 (T4)
 TN6555, 4 Pin Surface Mount (SM3)
 FP6555, 4 Pin Flatpack (FP4)
 BX6555, Connectorized Housing (H1)

Features

- Medium Gain: 14.7 dB Typical
- Medium Output Power: + 11.5 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	5 - 500 MHz	5 - 500 MHz
Gain (dB)	14.7	13.5 Min.
Power @ 1 dB Comp. (dBm)	+11.5	+9.0 Min.
Reverse Isolation (dB)	-18.5	-17.5 Max.
VSWR In	1.15:1	2.0:1 Max.
VSWR Out	1.25:1	2.0:1 Max.
Noise figure (dB)	4.0	6.5 Max.
Power Vdc	+15	+15
mA	33	36 Max.

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

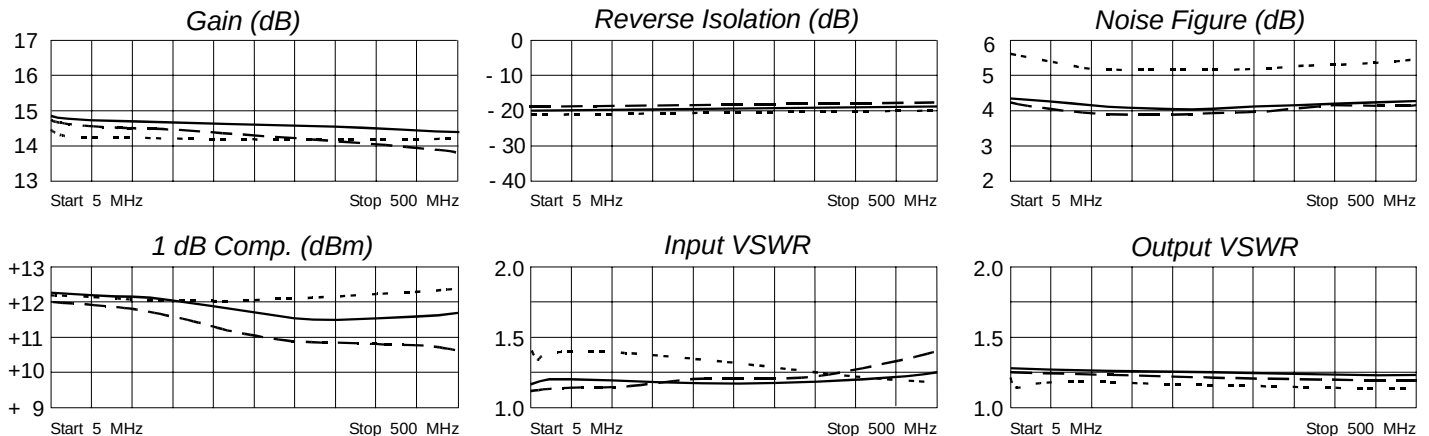
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +40 dBm (Typ.)
 Second Order Two Tone Intercept Point +35 dBm (Typ.)
 Third Order Two Tone Intercept Point +24 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



Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.07	-179	5.56	-176	.10	2	.13	179
50	.08	179	5.49	172	.10	- 0	.13	171
100	.08	172	5.45	164	.10	- 0	.13	162
200	.07	172	5.39	148	.10	- 1	.13	141
300	.07	173	5.35	132	.10	- 2	.12	125
400	.08	-175	5.31	116	.11	- 4	.12	107
500	.11	-166	5.21	99	.11	- 7	.13	89



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