

RF AMPLIFIER

MODEL *TM6556*

Available as: TM6556, 4 Pin TO-8 (T4)
 TN6556, 4 Pin Surface Mount (SM3)
 FP6556, 4 Pin Flatpack (FP4)
 BX6556, Connectorized Housing (H1)

Features

- High Gain: 26 dB Typical
- $IP_3 = +28$ 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 - 400 MHz	5 - 400 MHz
Gain (dB)	26	24.0 Min.
Power @ 1 dB Comp. (dBm)	+14	+12.5 Min.
Reverse Isolation (dB)	-35	-34 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise figure (dB)	4.5	6.5 Max.
Power Vdc	+15	+15
mA	66	70 Max.

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

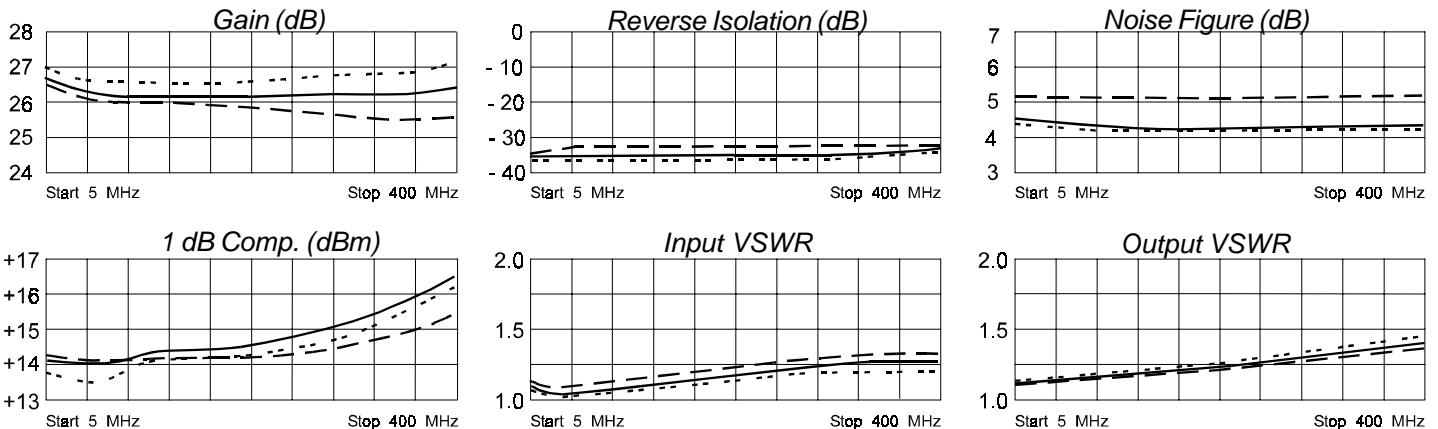
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +53 (Typ.)
 Second Order Two Tone Intercept Point +47 (Typ.)
 Third Order Two Tone Intercept Point +28 (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
5	.04	-51	22.01	4	.01	2	.05	-166
50	.02	25	21.35	-20	.01	5	.06	-163
100	.04	42	21.18	-40	.01	13	.07	-157
200	.08	31	20.92	-78	.01	12	.11	-161
300	.10	8	20.79	-117	.01	17	.13	-172
400	.12	-23	21.20	-156	.02	13	.17	-178



2707 Black Lake Place, Philadelphia, PA 19154

TEL 215-464-4000 •••• FAX 215-464-4001 3/17/03