

RF AMPLIFIER

MODEL *TM6526*

Available as: TM6526, 4 Pin TO-8 (T4)
 TN6526, 4 Pin Surface Mount (SM3)
 FP6526, 4 Pin Flatpack (FP4)
 BX6526, Connectorized Housing (H1)

Features

- n High Output Power: +20.5 dBm Typical
- n High Gain: 28 dB Typical
- n Operating Temp. - 55 °C to +85 °C
- n Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10-500 MHz	10-500 MHz
Gain (dB)	28	26 Min
Power @ 1 dB Comp. (dBm)	20.5	18.5 Min
Reverse Isolation (dB)	-38	-35 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise figure (dB)	3.75	4.0 Max.
Power Vdc	+15	+15 Min
mA	93	96 Max.

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

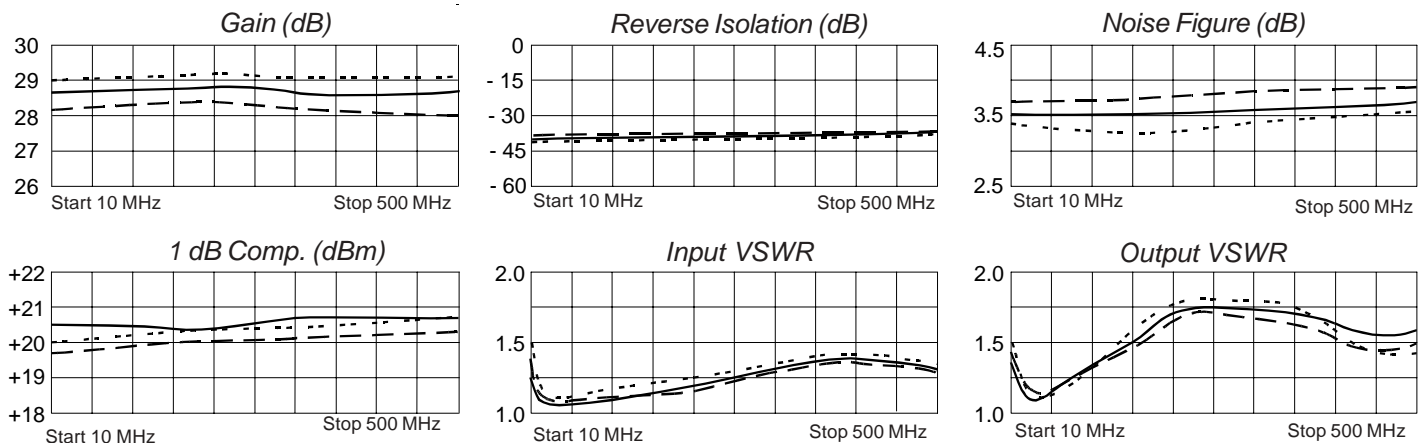
Typical Intermodulation Performance at 25 ° C

- Second Order Harmonic Intercept Point +56 dBm (Typ.)
- Second Order Two Tone Intercept Point +50 dBm (Typ.)
- Third Order Two Tone Intercept Point +34 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 + 20 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
10	.07	95	26.94	9	.01	18	.13	128
50	.03	90	27.31	- 18	.01	5	.06	-155
100	.04	90	27.35	- 41	.01	- 12	.12	-142
200	.09	84	27.23	- 84	.01	- 10	.23	-161
300	.15	55	26.84	-129	.01	- 28	.25	165
400	.16	27	26.60	-173	.01	- 60	.24	128
500	.12	- 3	27.36	139	.01	- 45	.24	76



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