

RF AMPLIFIER

MODEL *TM9326*

Available as: TM9326, 4 Pin TO-8 (T4)
 TN9326, 4 Pin Surface Mount (SM3)
 FP9326, 4 Pin Flatpack (FP4)
 BX9326, SMA Connectorized Housing (H1)

Features

- Medium Gain: 15 dB Typical
- High Output Power: +20.5 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	10 - 2000 MHz	10 - 2000 MHz
Gain (dB)	15	13.0 Min.
Power @ 1 dB Comp. (dBm)	+20.5*	+18.0 Min.
Reverse Isolation (dB)	-30	-25 Max.
VSWR In	1.8:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	6.5	7.5 Max.
Power Vdc	+15	+15
mA	110	120 Max.

Note: Care should always be taken to effectively ground the case of each unit.
 * Measured at 2000 MHz.

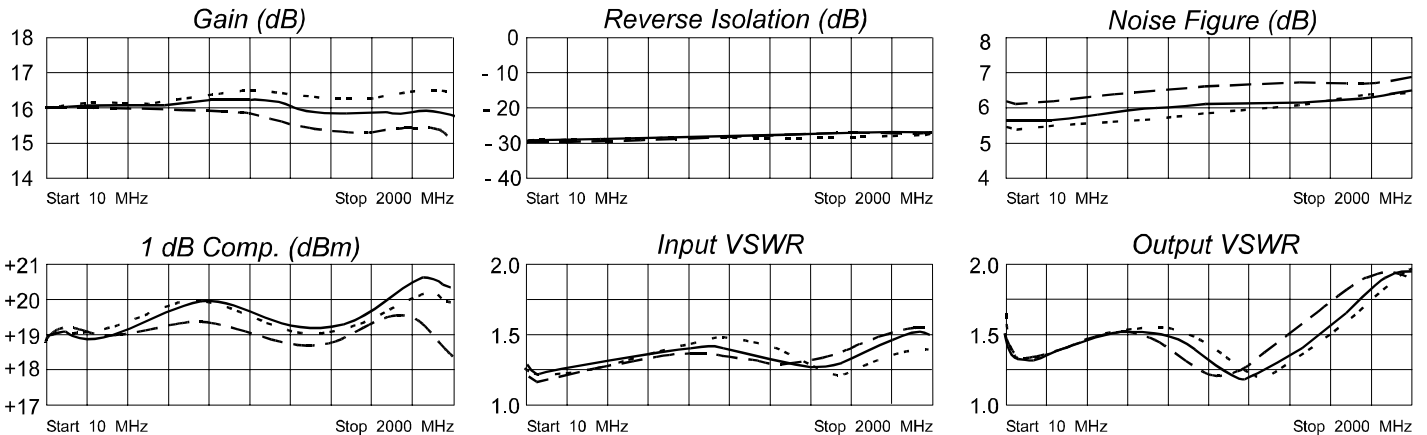
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +51 dBm (Typ.)
 Second Order Two Tone Intercept Point +45 dBm (Typ.)
 Third Order Two Tone Intercept Point +31 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to +115 °C
 Storage Temperature -62°C to +150 °C
 Case Temperature +125 °C
 DC Voltage +17 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	Ang	dB	Ang	dB	Ang	Mag	Ang
10	0.03	13	5.89	5	0.04	7	0.09	72
209	0.05	-19	5.82	-54	0.04	-29	0.06	-79
408	0.06	-60	5.79	-106	0.04	-56	0.09	-130
607	0.07	-100	5.82	-157	0.03	-83	0.11	-173
806	0.09	-137	5.89	-151	0.03	-111	0.12	-151
1005	0.10	-177	5.96	98	0.03	-140	0.10	-122
1204	0.12	141	5.96	46	0.03	-169	0.08	-121
1403	0.14	92	6.03	-6	0.03	162	0.09	-123
1602	0.15	35	6.17	-60	0.03	131	0.13	-113
1801	0.17	-26	6.35	-116	0.03	99	0.17	88
2000	0.21	-88	6.38	-176	0.02	65	0.17	58

