

RF AMPLIFIER

MODEL *TM6573*

Available as: TM6573, 4 Pin TO-8 (T4)
 TN6573, 4 Pin Surface Mount (SM3)
 FP6573, 4 Pin Flatpack (FP4)
 BX6573, Connectorized Housing (H1)

Features

- High Gain: 32 dB Typical
- Low Noise Figure: 2.5 dB 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)	32	29 Min.
Power @ 1 dB Comp. (dBm)	+2.0	-2.5 Min.
Reverse Isolation (dB)	-39.5	-38 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise figure (dB)	2.5	3.5 Max.
Power Vdc	+15	+15
mA	20	25 Max.

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

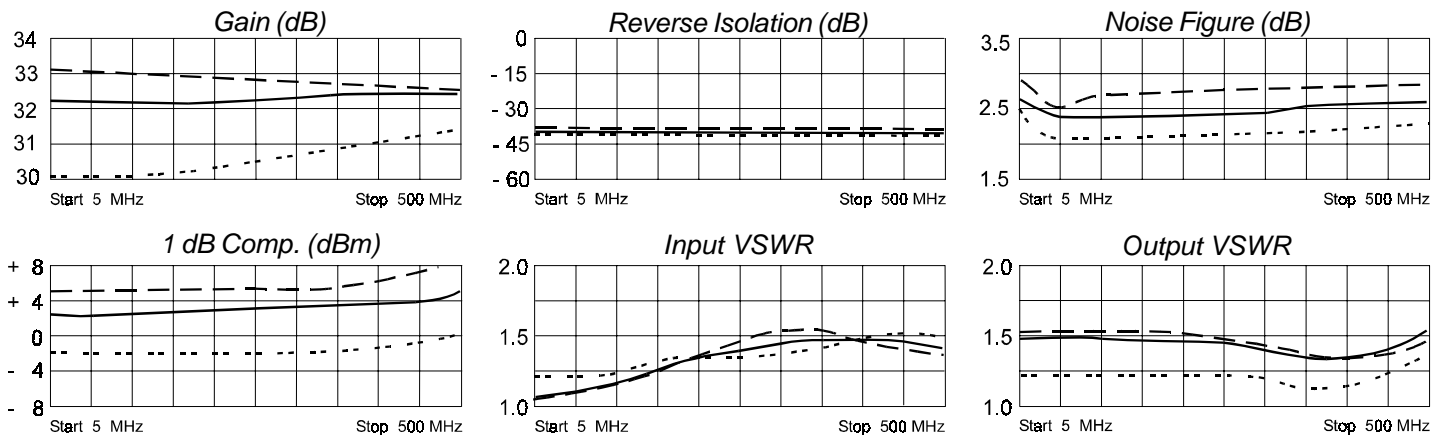
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +25 (Typ.)
 Second Order Two Tone Intercept Point +19 (Typ.)
 Third Order Two Tone Intercept Point +14 (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 + 6 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	.02	-115	43.29	2	.01	- 8	.20	-174
50	.05	-112	43.04	- 20	.01	- 7	.20	173
100	.09	-121	43.06	- 39	.01	- 3	.19	164
200	.15	-142	43.16	- 78	.01	-12	.19	145
300	.20	-162	43.89	-118	.01	- 1	.17	130
400	.21	-179	44.11	-180	.01	-17	.14	129
500	.20	189	43.91	156	.01	-19	.19	141
600	.21	173	43.44	108	.01	-21	.36	130



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