

RF AMPLIFIER

MODEL *TM6576*

Available as: TM6576, 4 Pin TO-8 (T4)
 TN6576, 4 Pin Surface Mount (SM3)
 FP6576, 4 Pin Flatpack (FP4)
 BX6576, Connectorized Housing (H1)
 RN6576, 4 Pin Surface Mount (SM19)

Features

- High Gain: 28 dB Typical
- Output Power: +16 dBm Typical

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point.....+56 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+52 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+30 dBm (Typ.)

Specifications

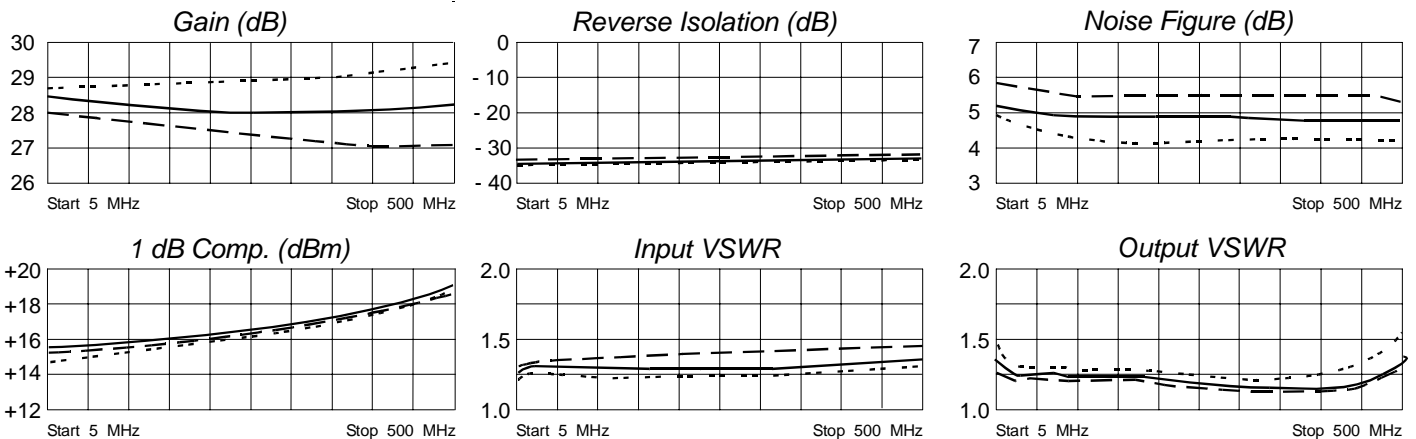
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5 - 500 MHz	5 - 500 MHz
Gain (dB)	28	26.0 Min.
Power @ 1 dB Comp. (dBm)	+16	+14 Min.
Reverse Isolation (dB)	-34	-33 Max.
VSWR In	<1.5:1	2.0:1 Max.
Out	<1.5:1	2.0:1 Max.
Noise figure (dB)	5.0	6.0 Max.
Power Vdc	+15	+15
mA	64	68 Max.

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

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



Linear S-Parameters

FREQ. MHz	S11		S21		S12		S22	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
5	.11	10	26.16	9	.01	8	.14	57
50	.12	-3	25.78	-20	.01	-7	.11	-2
100	.12	-5	25.66	-41	.01	6	.11	-18
200	.12	-8	25.56	-82	.01	8	.09	-44
300	.13	-19	25.65	-123	.02	2	.08	-83
400	.15	-35	25.76	-166	.02	9	.09	-136
500	.17	-66	26.10	149	.02	-1	.17	169



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