

RF AMPLIFIER

MODEL *TM6719*

Available as: TM6719, 4 Pin TO-8 (T4)
 TN6719, 4 Pin Surface Mount (SM3)
 FP6719, 4 Pin Flatpack (FP4)
 BX6719, Connectorized Housing (H1)

Features

- Low Noise Figure: <1.7 dB Typical
- Medium Output Power: +9 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 - 500 MHz	5 - 500 MHz
Gain (dB)	33	31.0 Min.
Power @ 1 dB Comp. (dBm)	+9	+8.0 Min.
Reverse Isolation (dB)	-42	-40 Max.
VSWR In	<1.75:1	2.0:1 Max.
VSWR Out	<1.5:1	2.0:1 Max.
Noise figure (dB)	1.7	2.0 Max.
Power Vdc	+15	+15
mA	35	38 Max.

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

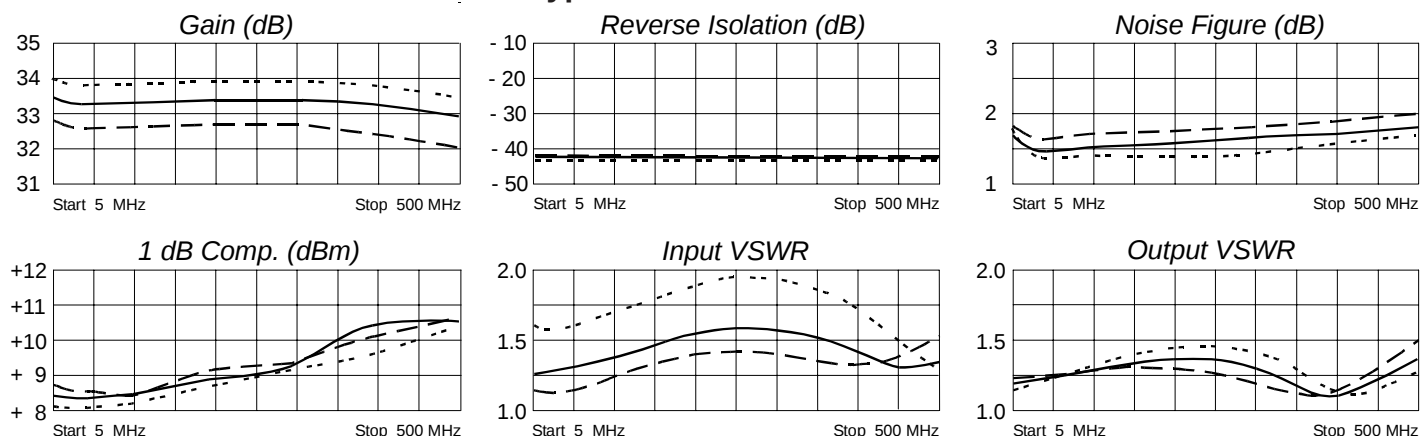
Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +42 dBm (Typ.)
 Second Order Two Tone Intercept Point +36 dBm (Typ.)
 Third Order Two Tone Intercept Point +20 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 + 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	.11	-163	47.18	3	.01	12	.09	-163
50	.13	-166	46.15	-24	.01	-20	.10	-165
100	.16	-165	45.93	-48	.01	-5	.13	-164
200	.20	-173	46.18	-97	.01	-8	.16	179
300	.21	171	46.31	-147	.01	-16	.13	160
400	.17	165	46.10	160	.01	-25	.06	-171
500	.16	-158	44.77	104	.01	-41	.17	-148



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