

RF AMPLIFIER

MODEL **CM8460**

Available as: CM8460, 4 Pin TO-8 (T4)
 BX8460, Connectorized Housing (H1)

Preliminary

Features

- Medium Gain: 15 dB Typical
- Output Power: -1.5 dBm Typical
- Operating Temp. -55 °C to +100 °C

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +16 dBm (Typ.)
 Second Order Two Tone Intercept Point +10 dBm (Typ.)
 Third Order Two Tone Intercept Point +11 dBm (Typ.)

Specifications

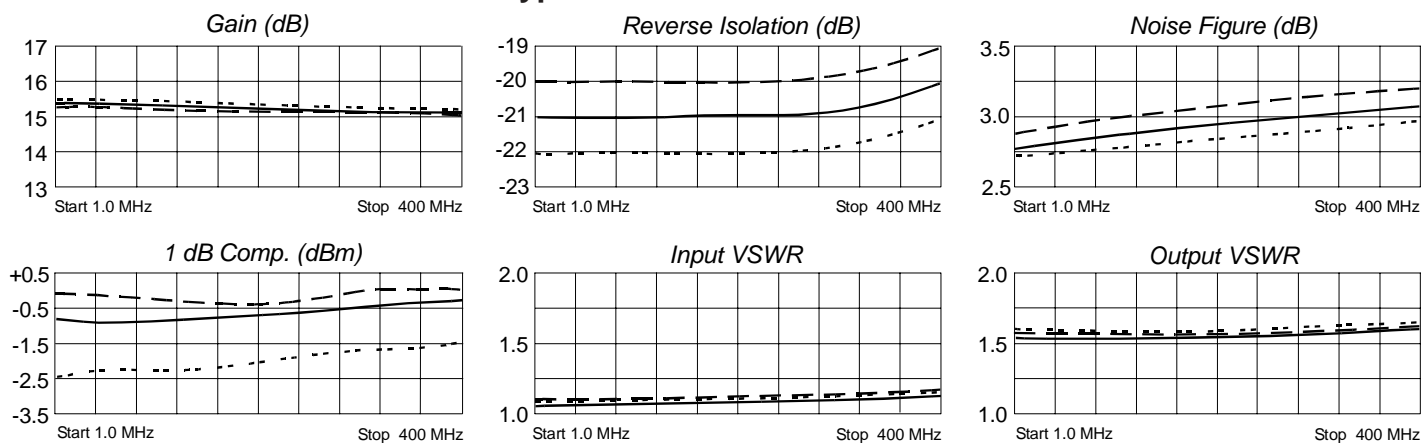
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +100 °C
Frequency	0.1 - 500 MHz	1 - 400 MHz
Gain (dB)	15	14 Min.
Power @ 1 dB Comp. (dBm)	-1.0	-2.5 Min.
Reverse Isolation (dB)	-20	-15.5 Max.
VSWR In	1.25:1	2.0:1 Max.
VSWR Out	1.6:1	2.0:1 Max.
Noise Figure (dB)	3.0	4.0 Max.
Power Vdc	+15	+15
Power mA	10	12 Max.

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage + 17 Volts
 Continuous RF Input Power + 13 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 μsec Max.)

Legend ——— + 25 °C - - - + 100 °C - - - - -55 °C

Typical Performance Data



Linear S-Parameters

Freq. MHz	---S11---		---S21---		---S12---		---S22---	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
.1	.09	-61	5.01	-165	.08	17	.21	-5
1	.05	-8	5.03	-179	.08	2	.23	0
4	.05	-4	5.02	179	.08	0	.24	-1
10	.05	-5	5.02	177	.08	-1	.24	-3
100	.05	-44	5.05	154	.08	-11	.24	-29
250	.08	-89	4.95	115	.08	-26	.25	-75
400	.11	-125	5.01	76	.08	-40	.27	-127
500	.13	-148	5.12	49	.08	-48	.30	-168



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