

# RF AMPLIFIER

## MODEL CM8462

Available as: CM8462, 4 Pin TO-8 (T4)

\* The CM8462 is designed with all necessary Internal Blocking Capacitors needed for a 2-400 MHz Bandwidth.

### Features

- Internal Blocking Capacitors
- 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	2 - 400 MHz	2 - 400 MHz
Gain (dB)	14.5	13.0 Min.
Power @ 1 dB Comp. (dBm)	+8.5	+7.0 Min.
Reverse Isolation (dB)	- 20	-18 Max.
VSWR In	1.75:1	2.2:1 Max.
Out	1.75:1	2.0:1 Max.
Noise Figure (dB)	5.0	7.0 Max.
Power Vdc	+15	+15
mA	25	28 Max.

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

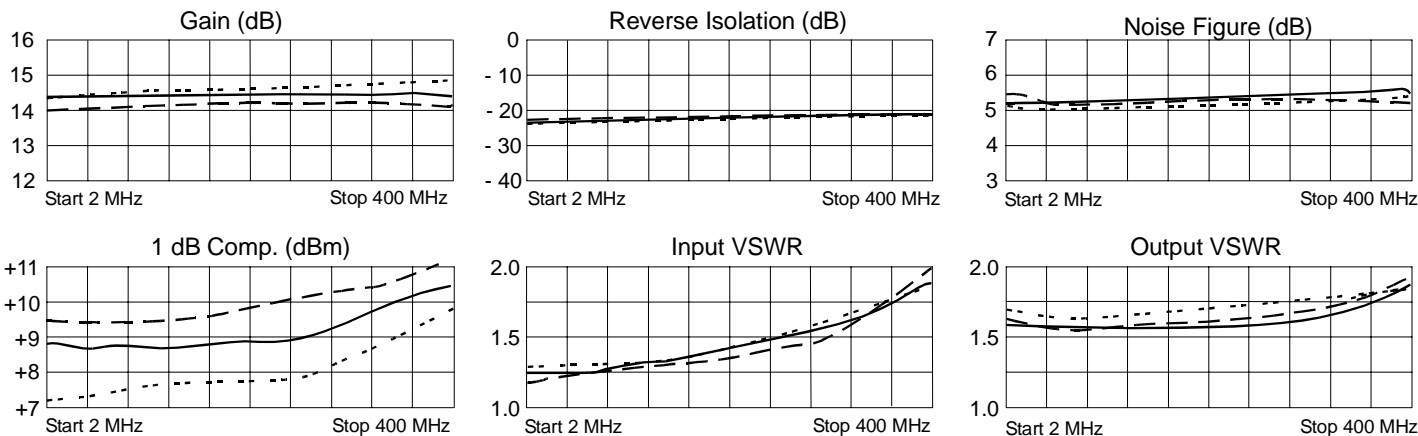
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+33 dBm (Typ.)  
 Second Order Two Tone Intercept Point.....+27 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 ..... + 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

