

## Features

- Fixed Frequency
- Low noise
- Easy to use interface
- Fast rise fall time

## Applications

- Driving AO Modulators

## General Description

EM4 offers drivers configured for either analog or digital modulation control. Specifically designed for controlling our AO Modulators, the RF output is internally set to a single frequency.



## Ordering Information

Part	Frequency	RF Power
EM437	125 MHz	2 W

## Modulation Input

Parameter	Value
Input Impedance	50 ohms
Analog Input (SMB Male)	0 to +1.0VDC

## RF Output

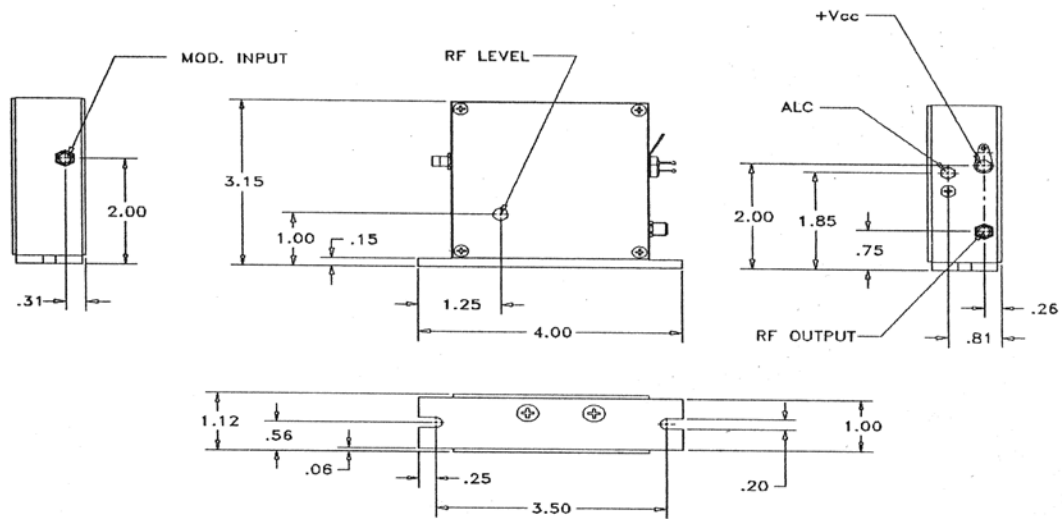
Parameter	Value
Center Frequency (Fc)	125MHz $\pm$ 0.1%
Output Power (SMA Female)	2.0W
Rise/Fall Time	12 nsec Max
RF Contrast Ratio	35 dB min
Harmonic Distortion	-30 dBc
Output Impedance	50 Ohms
Output VSWR	1.5 : 1 Max
Modulation Bandwidth	60MHz
Power supply voltage (+Vcc)	+28 V @ 600mA

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For pricing and delivery information, please contact EM4 inc. direct at +1 781 275 7501, sales@em4inc.com or any of the representatives listed at www.em4inc.com.

**Mechanical**

All units in inches

**Notes**

1. The slope of the RF output power vs the input signal voltage curve shall be non-zero and positive at all points between 0 and 1.0 Volts input, inclusive.
2. Output power factory set to 2W at 1 volt input. Power stability less than 5% over the heatsink's ambient temperature range of 0-40° C, after 5 minute warm-up.
3. When calculating the contrast ratio, it is understood that only the power of the 125 MHz fundamental shall be used. The higher harmonics have no effect on the AO modulator's performance.



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