

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
EM453	165 MHz	4 W

Modulation Input

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

RF Output

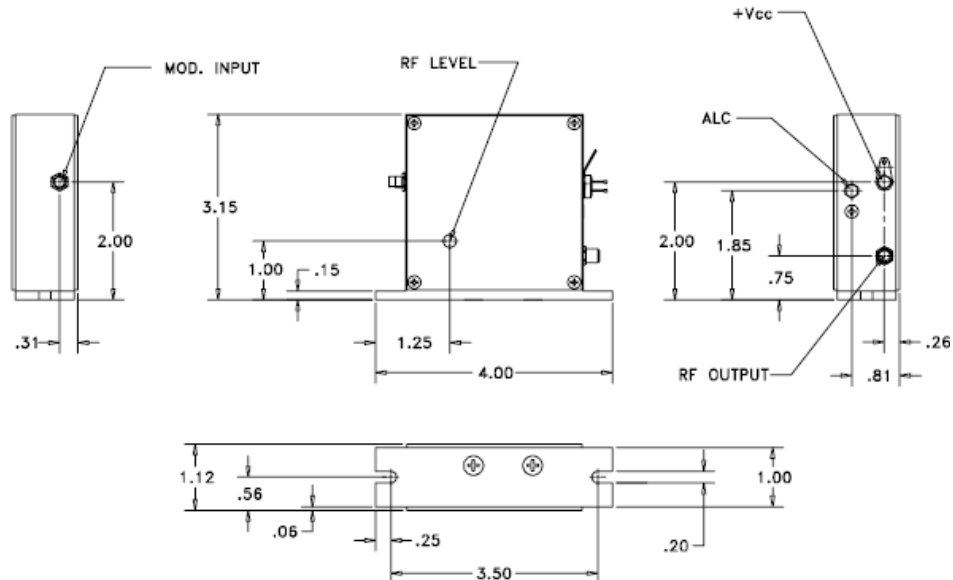
Parameter	Value
Center Frequency (Fc)	165MHz \pm 0.1%
Output Power (SMA Female)	4 W
Rise/Fall Time	5 nsec typ
RF Contrast Ratio	35 dB min
Harmonic Distortion	-20 dBc
Output Impedance	50 Ohms
Output VSWR	1.5 : 1 Max
Power supply voltage	+24 V @ 4 A (total)

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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 below 0 and 1.0 Volts input, inclusive.
2. Output power factory set to 4 W at a 1.0 0 Volt input. Power stability less than 5% over the heat sinks ambient temperature range of 0 - 40° C, after a 5 minute warm-up.
3. When calculating the contrast ratio, it is understood that only the power of the 200 MHz fundamental shall be used. The higher harmonics have no effect on the AO modulator's performance.
4. The RF driver includes a Mini-Circuits power amplifier (p/n ZHL-03-5WF) or equivalent. (Not shown on drawing)



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