

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 |
|-------|-----------|----------|
| EM454 | 200 MHz | 2.5 W |

Modulation Input

| Parameter | Value |
|----------------------|--------------|
| Input Impedance | 75 ohms |
| Digital Input (SMB) | Standard TTL |

RF Output

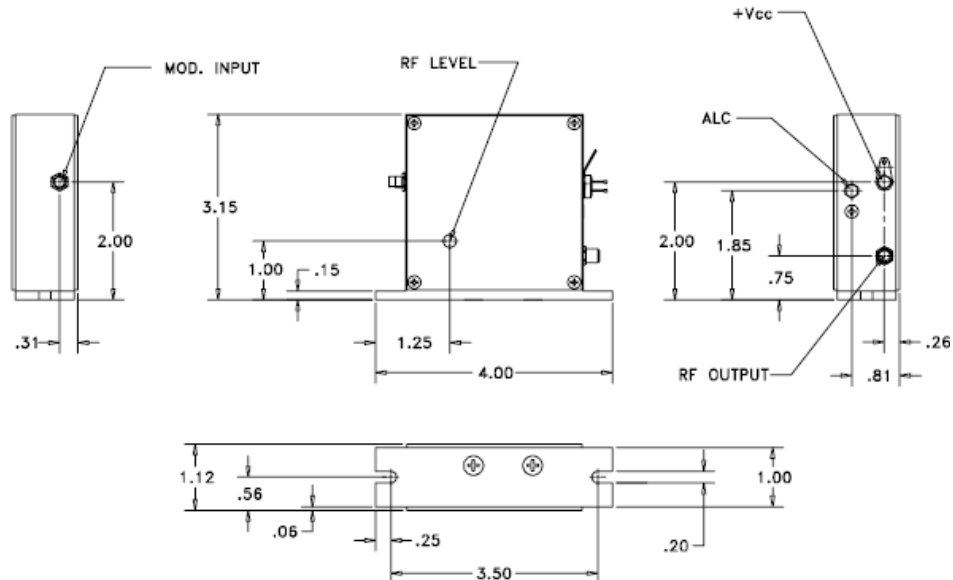
| Parameter | Value |
|---------------------------|-------------------|
| Center Frequency (Fc) | 200MHz \pm 0.1% |
| Output Power (SMA Female) | 2.5W |
| Rise/Fall Time | 4 nsec Max |
| RF Contrast Ratio | 50 dB min |
| Harmonic Distortion | -20 dBc |
| Output Impedance | 50 Ohms |
| Output VSWR | 1.5 : 1 Max |
| Power supply voltage | +24 V @ 600mA |

The information published in this datasheet is believed to be accurate and reliable. EM4, Inc. reserves the right to change without notice including but not limited to the design, specification, form, fit or function relating to the product herein. ©2004 EM4, Inc. All rights reserved.

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. Output power factory set to 2.5W at 2.4 Volt input. Power stability less than 5% over the heatsink's ambient temperature range of 0 - 40° C, after 5 minute warm-up.
2. 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.
3. RoHS compliant



The information published in this datasheet is believed to be accurate and reliable. EM4, Inc. reserves the right to change without notice including but not limited to the design, specification, form, fit or function relating to the product herein. ©2004 EM4, Inc. All rights reserved.

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.