

SPECIFICATIONS

Frequency Tuning

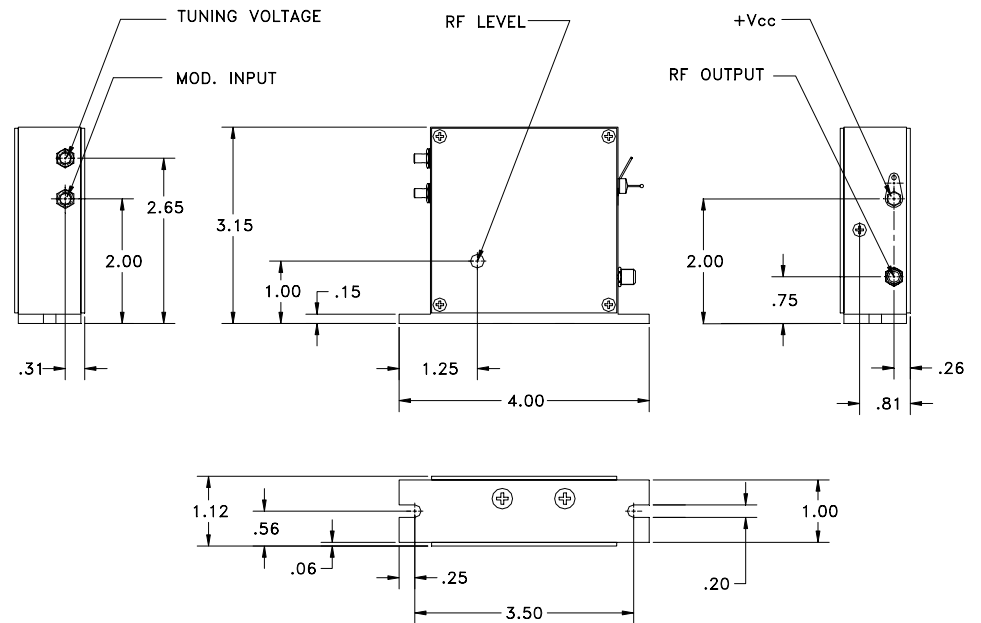
Frequency Range	50 - 100 MHz
Voltage Range (SMC Male)	+1.5 to +15.0 V nominal
Input Impedance	10 kOhms
FM Bandwidth	35 kHz

Modulation Input

Input Impedance	50 Ohms
Analog Input (SMB Male)	0 to +1.0 VDC
Dynamic Range	35 dB nominal

RF Output

Output Power (SMA Female)	2.0 W
Power Supply Voltage (+Vcc)	+28 V @ 700 mA
Output Impedance	50 Ohms
Output VSWR	1.5 : 1 Max
Modulation Bandwidth	See Note 4
Harmonic Distortion	-20 dBc



Notes:

- 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.
- Output power factory set to 2 W at 1 Volt input. Power stability less than 5% over the heat sink's ambient temperature range of 0-40° C, after 5 minute warm-up.
- When calculating the contrast ratio, it is understood that only the power of the 80 MHz fundamental shall be used. The higher harmonics have no effect on the AO modulator's performance.
- The RF modulation bandwidth is equal to 1/2 of the carrier frequency.

Document

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Control

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 9/8/2010	Crystal Technology, Inc.
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