

## SPECIFICATIONS

### Frequency Tuning

Frequency Range 150 - 280 MHz  
 Voltage Range (SMC Male) +2 to +15 V nominal  
 Input Impedance 10 kOhms nominal  
 FM Bandwidth 35 KHz

### Modulation Input

Input Impedance 50 Ohms  
 Analog Input (SMB Male) 0 V to +1.0 V  
 Dynamic Range 30 dB nominal

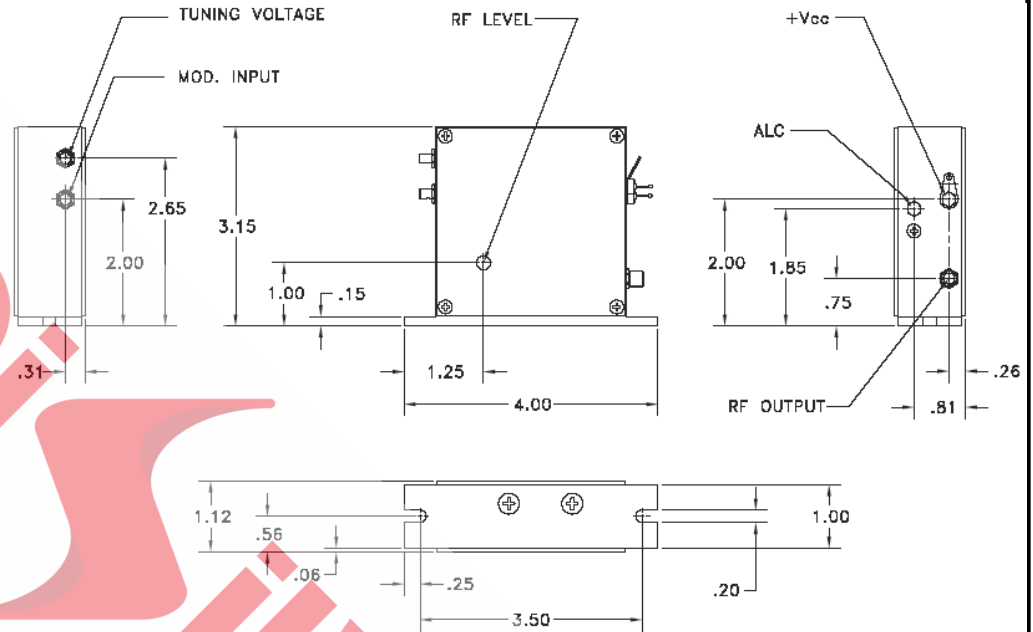
### RF Output

Output Power (SMA Female) 2.5 W  
 RF Equalization Control (ALC) Positive Slope  
 ALC Voltages +3.5 to +23 V nominal  
 Power Supply Voltage (+Vcc) +28 V @ 700 mA  
 Output Impedance 50 Ohms  
 Output VSWR 1.5 : 1 Max  
 Modulation Bandwidth See Note 4

#### 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 2.5 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.
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 modulation bandwidth is equal to 1/2 of the carrier frequency.

## OUTLINE DRAWING



**Document**  
**05/17/10**  
**Control**

THIS DOCUMENT IS THE PROPERTY OF CRYSTAL TECHNOLOGY, INC. IT IS NOT TO BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OTHER THAN BY EMPLOYEES OF CRYSTAL TECHNOLOGY AND ITS CONTRACTED REPRESENTATIVES AND DISTRIBUTORS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF CRYSTAL TECHNOLOGY.

TOLERANCES: .XX ± .01 .XXX ± .005	DR	G. Scholz 5/7/2010	<b>Crystal Technology, Inc.</b>		
MATERIAL: 	CHK		DESCRIPTION: <b>AODR 1200AF-AEF0-2.5</b>		
FINISH: 	APP		PART NUMBER:	REV:	1 of 1
	APP		97-03307-48	C	