SPECIFICATIONS

Frequency Tuning

Frequency Range	75 - 150 MHz
Voltage Range (SMC Male)	+1.5 to +15 VDC nominal
Input Impedance	10 kOhms
FM Bandwidth	35 kHz

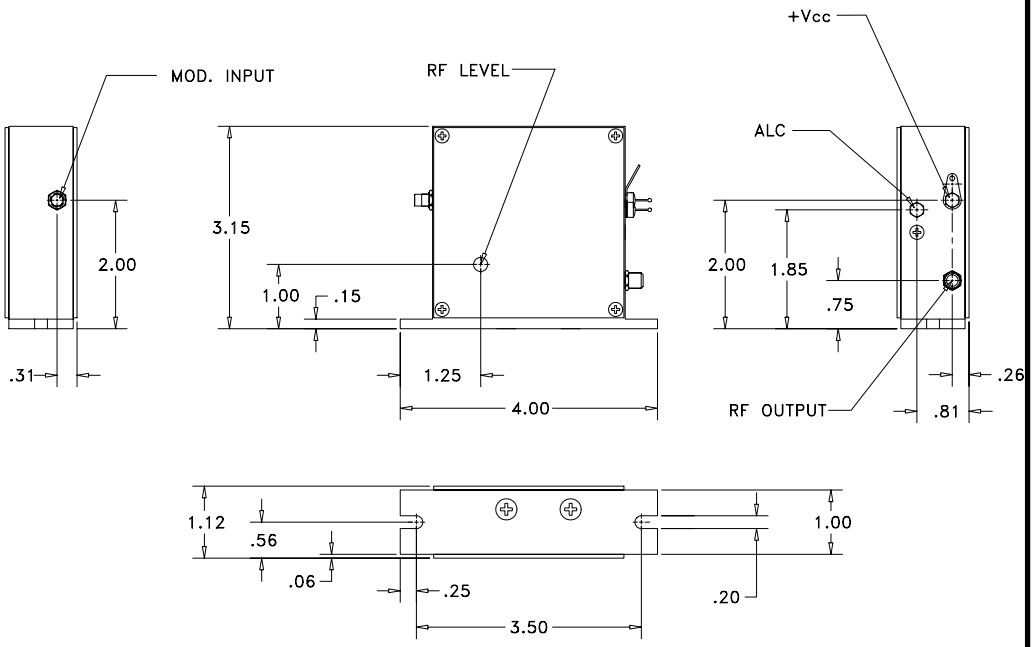
Modulation Input

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

RF Output

Output Power (SMA Female)	1.5 W
Power Supply Voltage (+Vcc)	+28 V @ 650 mA
Output Impedance	50 Ohms
Output VSWR	1.5 : 1 Max
Modulation Bandwidth	See Note 4

OUTLINE DRAWING



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 1.5 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 110 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.

5. An input voltage of greater than 15 Volts DC may be required to achieve an output frequency of 150 MHz.

For Reference Only

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 DISTRIBUTERS. ANY EXCEPTION REQUIRES THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF CRYSTAL TECHNOLOGY.

TOLERANCES: .XX ± .01 .XXX ± .005	DR	A. Campi 6/7/1999	Crystal Technology, Inc.		
MATERIAL:	CHK		DESCRIPTION: AODR 1110AF-AEF0-1.5		
FINISH:	APP				
	APP		PART NUMBER: 97-02207-23	REV: A	1 of 1