

OUTLINE DRAWING

Modulation Input

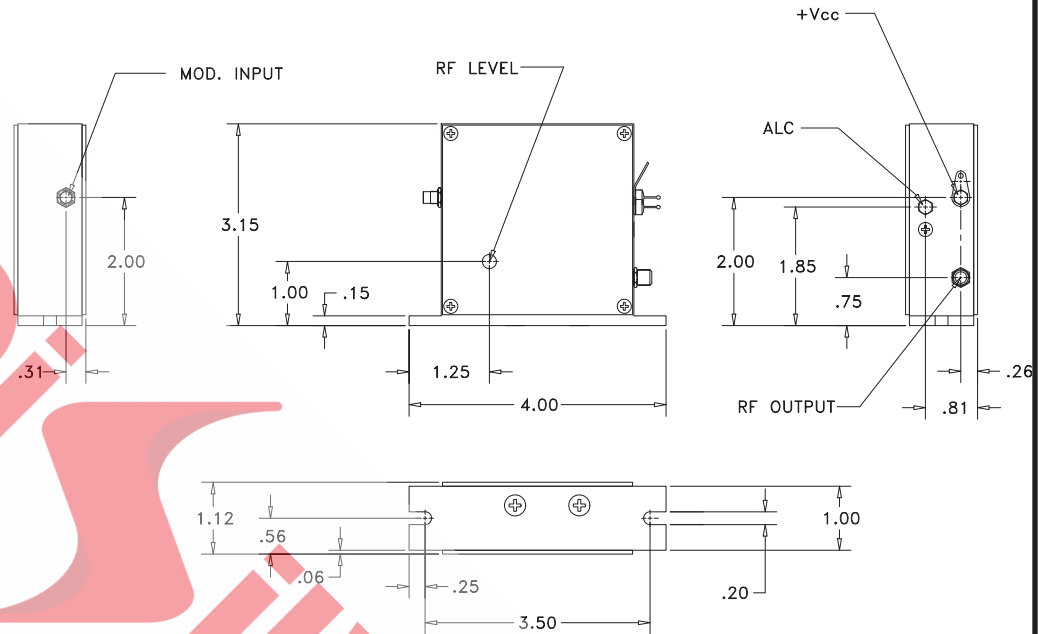
Input Impedance
Analog Input (SMB Male)

50 Ohms
0 to +1.0 VDC

RF Output

Center Frequency (Fc)
Output Power (SMA Female)
Rise/Fall Time
RF Contrast Ratio
Harmonic Distortion
Output Impedance
Output VSWR
Bandwidth
Power Supply Voltage (Filtered Feedthru)
ALC Voltage Level (Filtered Feedthru)

40 MHz $\pm 0.1\%$
0.5 W
25 nsec Typ.
35 dB min
-20 dBc
50 Ohms
1.5 : 1 Max
20 MHz
+24 V @ 550 mA
+3.5 to +21 V nominal



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 0.5 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 40 MHz fundamental shall be used. The higher harmonics have no effect on the AO modulator's performance.
4. A +21 Volt nominal input on the ALC corresponds to full RF output power. Zero RF power occurs at an ALC voltage slightly above +3.5 Volts. Full RF power occurs if ALC input is left unconnected.

Document

11/03/14

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 $\pm .01$.XXX $\pm .005$	DR	A. Campi 10/23/2014	Gooch & Housego		
MATERIAL: RoHS	CHK		DESCRIPTION: AODR 1040AF-AIF0-0.5		
FINIS Compliant	APP				
	APP		PART NUMBER: 97-03307-74	REV: 1	1 of 1