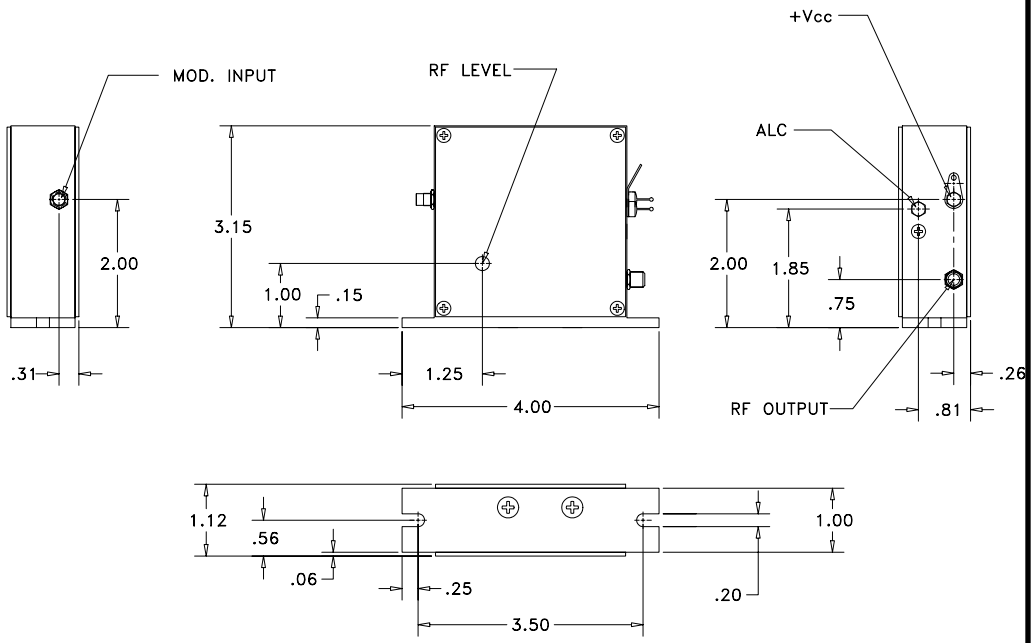
Modulation Input

Input Impedance	50 Ohms
Analog Input (SMB Male)	0 to +1.0 VDC

RF Output

Center Frequency (Fc)	40 MHz ± 0.1%
Output Power (SMA Female)	0.5 W
Rise/Fall Time	25 nsec Typ.
RF Contrast Ratio	35 dB min
Harmonic Distortion	-20 dBc
Output Impedance	50 Ohms
Output VSWR	1.5 : 1 Max
Bandwidth	20 MHz
Power Supply Voltage (Filtered Feedthru)	+24 V @ 550 mA
ALC Voltage Level (Filtered Feedthru)	+3.5 to +21 V nominal

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 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.

TOLERANCES: .XX ± .01, .XXX ± .005

MATERIAL: RoHS Compliant

FINISH:

DR	A. Campi 10/23/2014	Gooch & Housego
CHK		DESCRIPTION: **AODR 1040AF-AIF0-0.5**
APP		
APP		PART NUMBER: 97-03307-74 · REV: 1 · 1 of 1