

SPECIFICATIONS

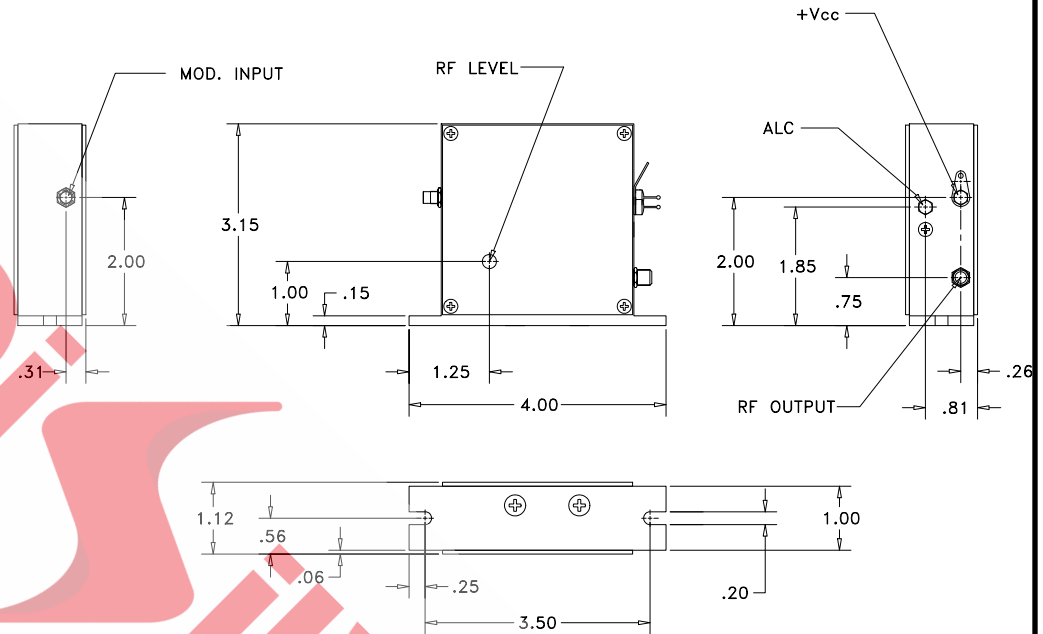
OUTLINE DRAWING

Modulation Input

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

RF Output

Center Frequency (Fc) 300 MHz ± 0.1%  
 Output Power (SMA Female) 2.5W  
 Rise/Fall Time 3 nsec Typ.  
 RF Contrast Ratio 35 dB min  
 Harmonic Distortion -20 dBc  
 Output Impedance 50 Ohms  
 Output VSWR 1.5 : 1 Max  
 Modulation Bandwidth 150 MHz  
 Power Supply Voltage (+Vcc) +28 V @ 700 mA  
 ALC Voltage Level +20 to +25 V nominal  
 ALC Bandwidth 35 kHz



Notes:

1. Output power factory set to 2.5 W at +1.0 V input. Power stability less than 5% over the heat sink's ambient temperature range of 0-40° C, after 5 minute warm-up.
2. When calculating the contrast ratio, it is understood that only the power of the 300 MHz fundamental shall be used. The higher harmonics have no effect on the AO modulator's performance.
3. A +25 V nominal input on the ALC corresponds to full RF output power. The RF output will be switched off with an ALC voltage of less than +18 Volts. Full RF power occurs if ALC input is left unconnected.

**Document**  
**10/16/13**  
**Control**

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TOLERANCES: .XX ± .01 .XXX ± .005	DR	G. Scholz 10/14/2013		
MATERIAL: 	CHK		DESCRIPTION: <b>AODR 1300AF-AIF0-2.5</b>	
FINISH: 	APP		PART NUMBER: 97-03307-47	REV: A
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