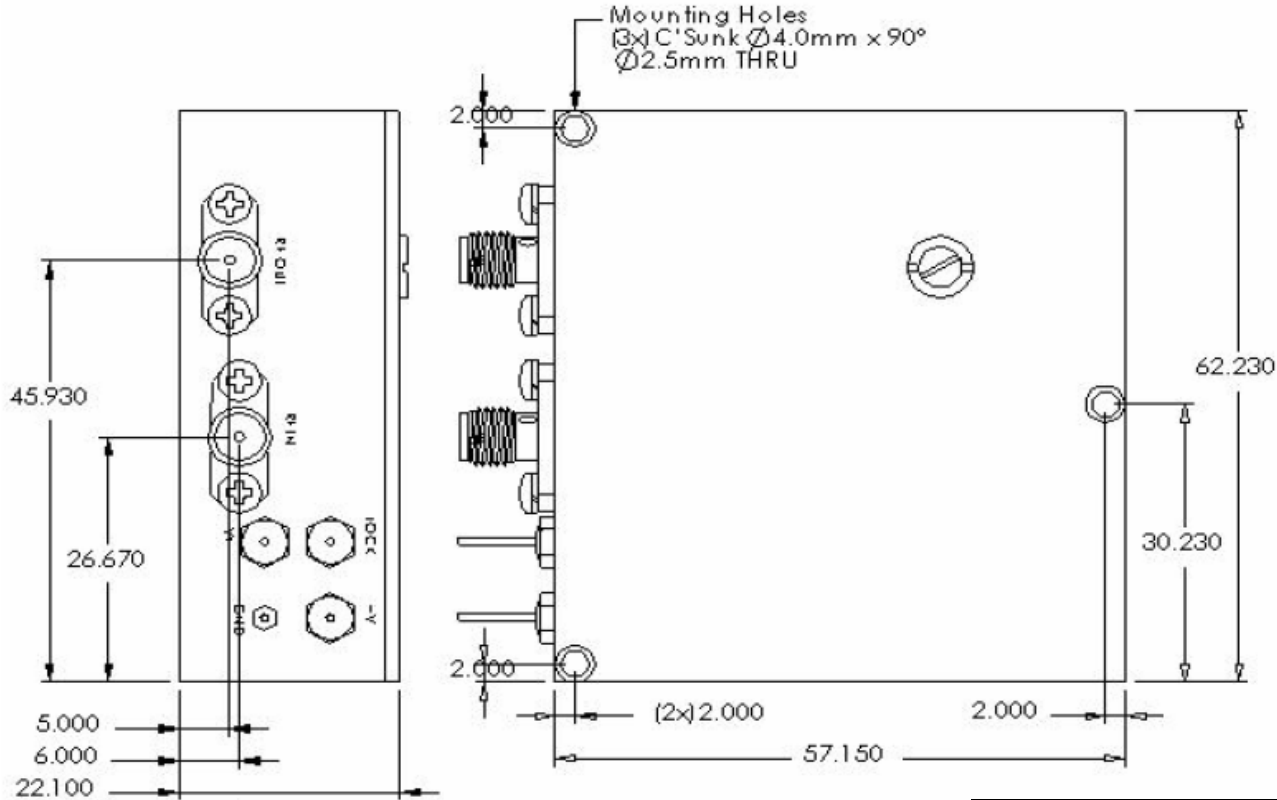


# RADITEK Phase Locked Oscillators 4.0-6.0 GHz, ER code-h1

RADITEK Phase Locked Oscillators (PLO's) use dielectric resonators for improved stability and phase noise. The oscillator is phase locked to a crystal oscillator reference (external or internal).

## External Reference PLO 4 to 6GHz (Frequency to Reference ratio < 150)



**PART#: RPLO-H-FREQ-POWER (VCC)-ER-REF**  
**Example: RPLO-H-4.0-11d-(12-15V)-ER100M**

Connectors	
RF Output	SMA(F)
Reference Input	SMA(F)
Locked Alarm	Feedthru
Supply Voltage	Feedthru
Ground	Solder Lug

Specifications	Units	
<b>Frequency</b>	<b>4.0-6.0</b>	<b>GHz</b>
Reference	External	
Reference Frequency	10~200	MHz
Reference Power	0±2	dBm
Harmonics	See Chart	dBc
Spurious	See Chart	dBc
Phase Noise	See Chart	
Supply Voltage	12-15	Vdc
Voltage Regulation	±0.5	Vdc
Supply Current	180	mA
Operating Temp.	-30 to +70	°C
Storage Temp.	-45 to +85	°C
Lock Alarm	TTL O/C	

Specifications	Units	
<b>Frequency</b>	<b>4.0-6.0</b>	<b>GHz</b>
RF Power	+11	dBm
Variation over Temperature	+1	dBm
Output Impedance	50	Ohm
Load VSWR	1.5	:1
Harmonics	-25	dBc
Spurious	-80	dBc
Phase Noise		
@ 10 kHz	<b>20*log(N)+3</b>	dBc/Hz

