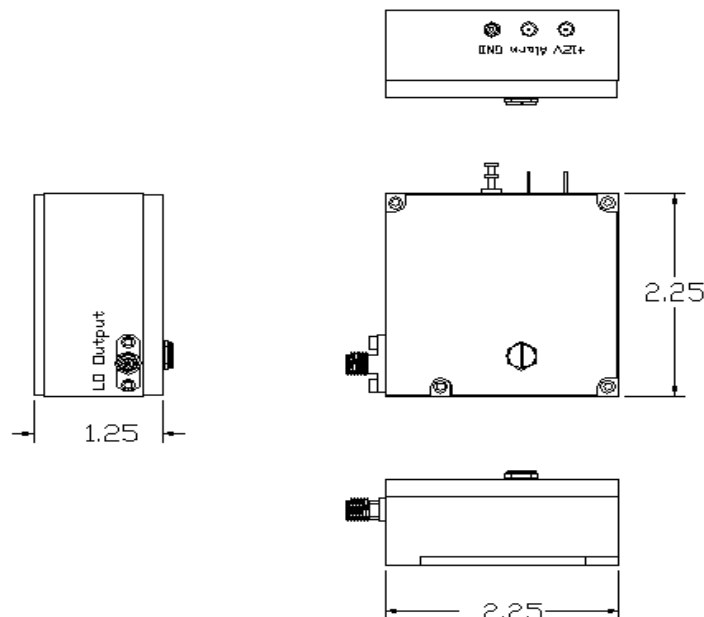


Phase Locked Oscillators 16-24GHz, IR2 or 5ppm

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 (internal or external)



NOTES:

- 1) Ground, Supply Voltage, Lock Alarm, and Voltage are solderable terminals.
- 2) RF Output freq RF Output connector
f > 24GHz 2.92mm female
f < 24GHz SMA female
- 3) Dimensions are subject to change in the interest of improved product performance

Units: mm(Inch)
Not to scale

PART#: RPLO-D-FREQ-POWER-VCC-IR0.5ppm

Example: RPLO-D-9.240-13-16d-(11.4-12.6v)-IR2ppm

Specifications:	Units	
Frequency	16.071-23.980	GHz
Internal Reference	IR 2, IR 5	ppm
RF Power ¹	See Chart	dBm
Harmonics	-45	dBc
Harmonics Sub	-30	dBc
Spurious	-80	dBc
Phase Noise	See Chart	(1 Hz BW)
Supply Voltage	11.4-12.6	V
Supply Current	400	mA
Warm-Up Current	545	mA
Operating Temp.	-40 to +70	°C
Storage Temp.	-55 to +85	°C
Stability Over Temp (p-p)		
Frequency	±500	ppb
Power	3	dB
Aging / (10 Years)	±2	ppm
Reference Tuning	±2.5	ppm
Lock Alarm	TTL Low	V

Specifications	Units				
Frequency	16.071-16.900	16.901-17.760	17.761-18.670	18.671-19.630	GHz
RF Power ¹	13-16	13-16	13-16	13-16	dBm
Phase Noise (1 Hz BW)					
@ 1 kHz	-95	-94	-90	-93	dBc/Hz
@ 10 kHz	-105	-104	-100	-103	
@ 100 kHz	-113	-112	-110	-111	
Frequency	19.631-20.640	20.641-21.700	21.701-22.810	22.811-23.980	GHz
RF Power ¹	13-16	13-16	13-16	13-16	dBm
Phase Noise (1 Hz BW)					
@ 100 Hz	-68	-67	-67	-67	dBc/Hz
@ 1 kHz	-93	-92	-92	-92	
@ 10 kHz	-103	-102	-102	-102	
@ 100 kHz	-111	-110	-110	-110	
@ 1 MHz	-136	-135	-135	-135	

1. Higher output power is available. Please contact the factory for more information.
2. Rugged Ultra Reliable versions are available. Please contact the factory for more information.