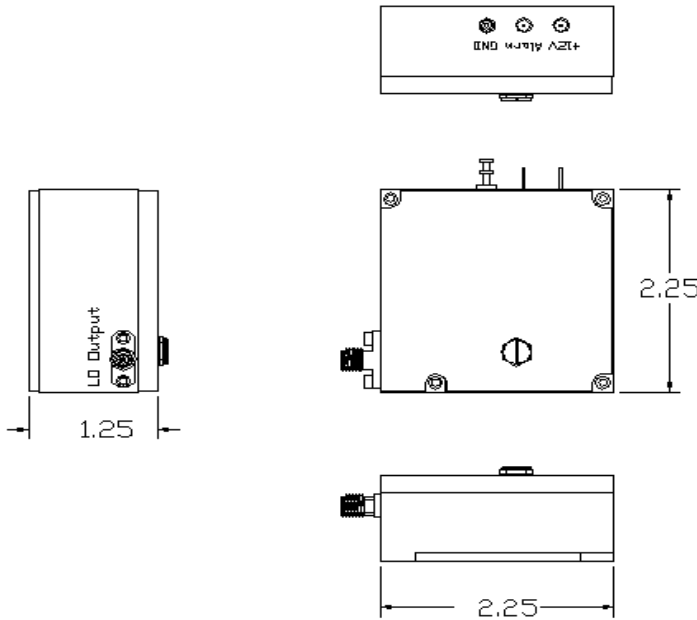


Phase Locked Oscillators 3.991-40.0GHz, IR0.5ppm

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)-IR0.5ppm

Specifications:				Units
Frequency	3.991-8.036	7.981-16.070	16.0-40.0	GHz
Internal Reference	IR 0.5	IR 0.5	IR 0.5	ppm
RF Power ¹	See Chart	See Chart	See Chart	dBm
Harmonics	-25	-45	-45	dBc
Spurious	-70	-80	-80	dBc
Phase Noise	See Chart	See Chart	See Chart	(1 Hz BW)
Supply Voltage	11.4-12.6	11.4-12.6 // 15V	11.4-12.6	V
Supply Current	460	400	400	mA
Warm-Up Current	670	545	545	mA
Operating Temp.	-40 to +70	-40 to +70	-40 to +70	°C
Storage Temp.	-55 to +85	-55 to +85	-55 to +85	°C
Stability Over Temp (p-p)				
Frequency	±500	±500	±500	ppb
Power	3	3	3	dB
Aging / (10 Years)	±2	±2	±2	ppm
Reference Tuning	±2.5	±2.5	±2.5	ppm
Lock Alarm	TTL Low	TTL Low	TTL Low	V

Phase Locked Oscillators 3.991-40.0GHz, IR0.5ppm

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Specifications									Units
Frequency	3.991-4.195	4.196-4.636	4.637-5.386	5.387-5.953	5.954-6.579	6.580-7.644	7.645-8.036	7.981-8.389	GHz
RF Power ¹	12-15	12-15	12-15	12-15	12-15	12-15	12-15	13-16	dBm
Phase Noise (1 Hz BW)									
@ 100 Hz	-82	-81	-80	-79	-78	-77	-76	-76	dBc/Hz
@ 1 kHz	-107	-106	-105	-104	-103	-102	-101	-101	
@ 10 kHz	-117	-116	-115	-114	-113	-112	-111	-111	
@ 100 kHz	-128	-127	-126	-125	-124	-123	-122	-119	
@ 1 MHz	-144	-144	-144	-144	-144	-144	-144	-144	
Frequency	8.390-9.271	9.272-10.770	10.771-11.900	11.901-13.160	13.161-15.290	15.291-16.070	16.55		GHz
RF Power ¹	13-16	13-16	13-16	13-16	13-16	13-16	13-16		dBm
Phase Noise (1 Hz BW)									
@ 100 Hz	-75	-74	-73	-72	-71	-70			dBc/Hz
@ 1 kHz	-100	-99	-98	-97	-96	-95	-85		
@ 10 kHz	-110	-109	-108	-107	-106	-105	-95		
@ 100 kHz	-118	-117	-116	-115	-114	-113	-105		
@ 1 MHz	-143	-142	-141	-140	-139	-138			
Frequency	18.0	19.0	20.4	27.0				40.0	GHz
RF Power ¹	13-16	13-16	13-16	13-16				13-16	dBm
Phase Noise (1 Hz BW)									
@ 100 Hz									dBc/Hz
@ 1 kHz	-90	-93	-93	-90				-85	
@ 10 kHz	-100	-103	-103	-100				-95	
@ 100 kHz	-110	-111	-111	-108				-102	
Harmonics Sub	-30							-45	dBc

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.