



# AT-PDRO-9.4GHz-IR

Phased Locked Dielectric Resonator Oscillator

## PRDO, 9.4GHz, Super Low Phase Noise 100MHz Internal Referenced



### Product Overview

AT Microwave provides Phased Locked Dielectric Resonator Oscillator (PLDRO) with state of art performance with high stable, reliable and efficient from 1GHz to 32GHz.

The PLDRO is with external or internal referenced option. The standard internal OCXO is with 100MHz, -157dBc/Hz 1kHz and +/-0.1ppm. The internal reference can also be locked to a 10MHz external reference according to the application.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

### Advantages

- ✓ Low Phase Noise
- ✓ Low Harmonics
- ✓ Low Spurs
- ✓ Internal or external Referenced

### Application

- ✓ 5G Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features

Parameter	Min	Typical	Max
RF OUT Frequency (Note1)		9.4GHz	
Output Power	+10	+13dBm	
Internal Referenced(Note2)	100MHz, -157dBc/Hz @1kHz, +/-0.1ppm		
Harmonics		-20dBc	
Spurs		-70dBc	
Phase Noise	-88dBc/Hz 100Hz; -113dBc/1kHz -120dBc/10kHz; -120dBc/100kHz -140dBc/Hz 1MHz		
Power Supply		+12V/0.3A	
Phase Lock Indicator		Lock, TTL High	
Spec Temp		25C	





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## Mechanical Information

Item	Description
RF Output Port	SMA Female
Reference Input	SMA Female
Vdd Power Supply	PIN
Phase Locked Indicator	PIN
Case Material	Aluminum
Finish	Nickel Plated
Weight	50g
Size:	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
Reference Input Power	+10dBm
Operating Temperature	-40 to + 70C
Storage Temperature	-50 to +150C

### Caution:

Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

### Notes:

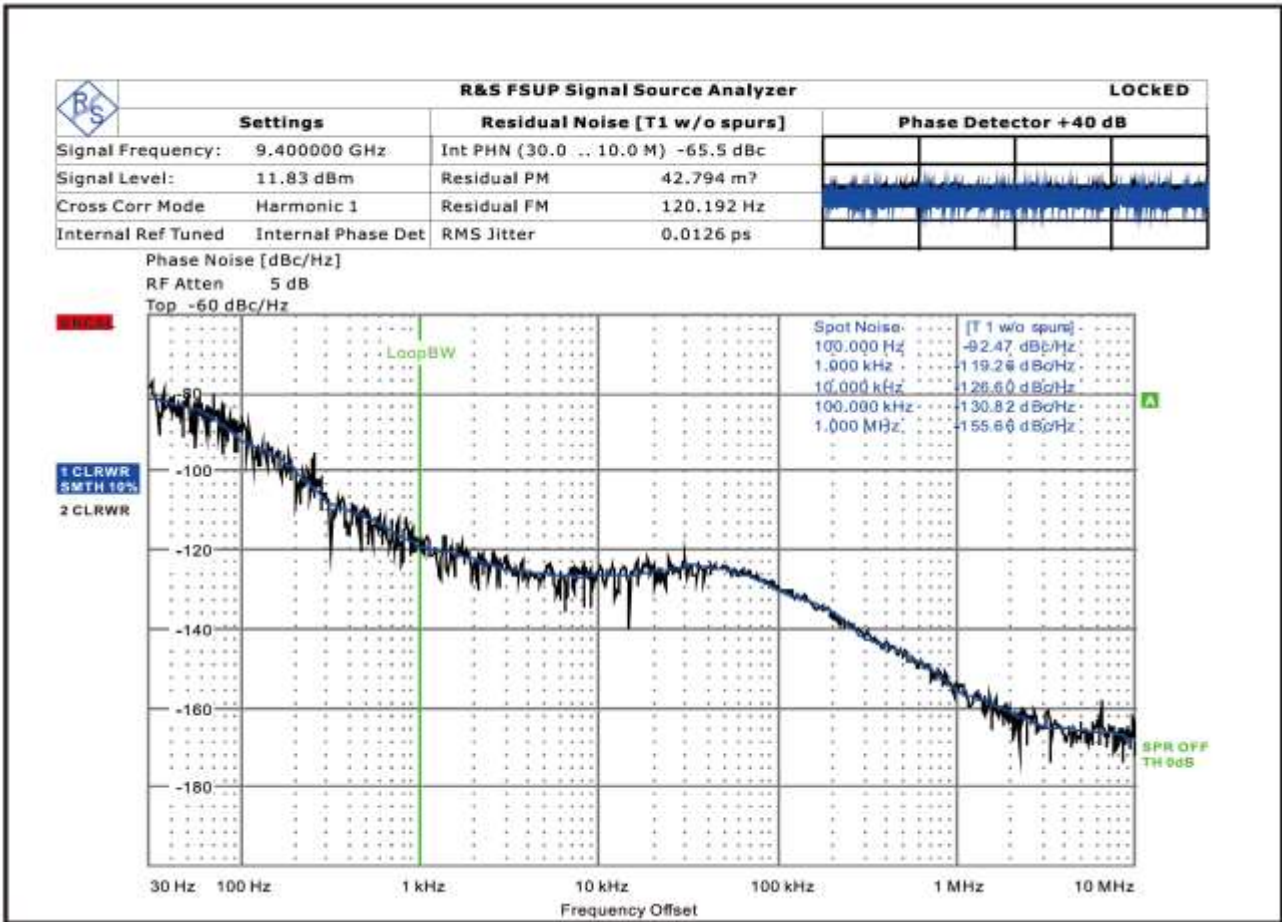
1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.





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**Dimension:** (unit in mm)

