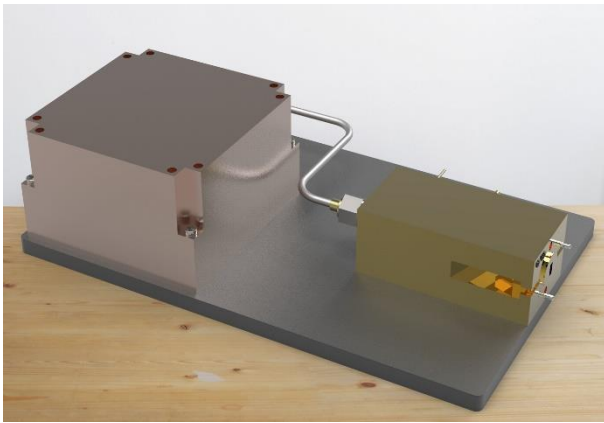


Phase-Locked Source, 75GHz 100MHz OCXO, Internal Referenced Pout=+25dBm, WR-12 Output



Product Overview

AT Microwave provides Phased Locked Dielectric Resonator Oscillator (PLDRO) with state of art performance with high stable, reliable and efficient from 40-110GHz.

These phase-locked source is combined with a PDRO and Active frequency multiplier. 100MHz OCXO internal referenced in the PDRO modules. Output power can be provided from +10dBm to +33dBm according to request.

More information, please visit 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	Note
RF OUT Frequency Range		75GHz		
Output Power	+23	+25dBm		
Frequency Stability (0 to 50C)		+/-0.1ppm		100MHz OCXO
Phase Noise @ 100kHz offset		-118dBc/Hz		@12.5GHz PRDOR
Multiplier Times		X6		
75GHz Phase Noise 100kHz offset		-98dBc/Hz		20lgN
Harmonics		-30dBc		
Spurs		-60dBc		
Spec Temp		25C		





AT-PLO-75IR-25-12

Phased Locked Dielectric Resonator Oscillator

Mechanical Information

Item	Description
RF Output Port	WR-12
Reference Input	SMA Female
Vdd Power Supply	PIN
Phase Locked Indicator	PIN
Case Material	Aluminum
Finish	Nickel Plated
Weight	200g
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

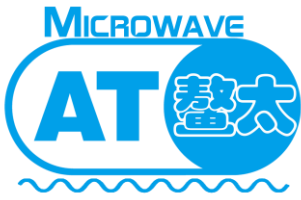
Caution:

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.





AT-PLO-75IR-25-12

Phased Locked Dielectric Resonator Oscillator

Dimension: (unit in mm)

