

## 90-98GHz Voltage Control Oscillator, High Power=+18dBm, WR-10



### Product Overview

AT-VCO-9098-10D1 is broadband voltage controlled oscillator with 90-98GHz output frequency and +18dBm power.

The product is combined by a 11.25-12.25GHz VCO and X8 Active Frequency Multiplier. Higher Power is available by adding higher power amplifier.

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

### Advantages

- ✓ Wideband Tuning
- ✓ Low SSB phase noise
- ✓ Low power consumption
- ✓ Simple Power Supply

### Application

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

### Key Features

Parameter	Min	Typical	Max
RF OUT Frequency Range		90-98GHz	
Coaxial VCO Frequency		11.25-12.25GHz	
Frequency Multiplier Factor		X8	
Output Power	+16	+18dBm	
Vtune Range		0-13V	
Vtune Current		10 uA	25uA
Vdd		+5V	+8V
Current		350mA	
Temp		25C	





# AT-VCO-9098-18D1

90-98GHz Voltage Control Oscillator

## Mechanical Information

Item	Description
Vtune Port	SMA Female
RF Output Port	WR-10
Vdd Power Supply	PIN
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	TBD
Dimension	See outline

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
Vtune	+25V
Operating Temperature	0 to + 50C
Storage Temperature	-45 to +85C

### 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.

