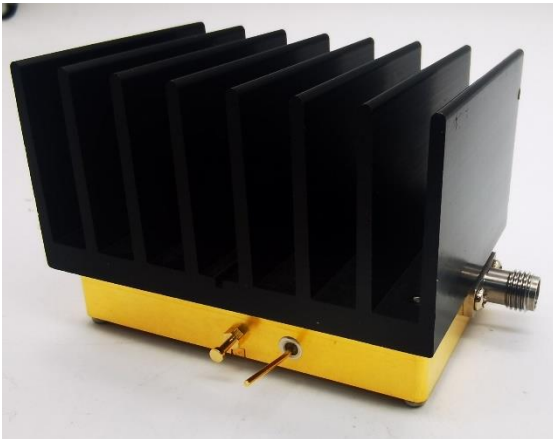


33-50GHz Voltage Control Oscillator, High Power. +22dBm, 2.4mm



Product Overview

AT-VCO-3350X-22-24F is a high performance voltage controlled oscillator module from 33-50GHz. The VCO provides very low phase noise and low power consumption.

Both input and output ports are SMA connector. The Vtune port accepts an analog tuning voltage from 1-13V.

More information, please visit www.atmicrowave.com

Advantages

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

Application

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

Key Features

Parameter	Min	Typical	Max
RF OUT Frequency Range		33-50GHz	
Output Power (note)	+20	+22dBm	
Vtune Range		1-13V	
Vtune Current		10 uA	25uA
Phase Noise @10kHz		-52dBc/Hz	
Phase Noise @100kHz		-80dBc/Hz	
Phase Noise @1MHz		-98dBc/Hz	
Vdd		+5V	+8V
Current		600mA	
Sensitivity		0.8-3.5GHz/V	
Temp		25C	





AT-VCO-3350X-22-24F

33-50GHz Voltage Control Oscillator

Mechanical Information

Item	Description
Vtune Port	SMA Female
RF Output Port	2.4mm Female
Vdd Power Supply	PIN
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	150g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+15V
Vtune	+25V
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +125C

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.

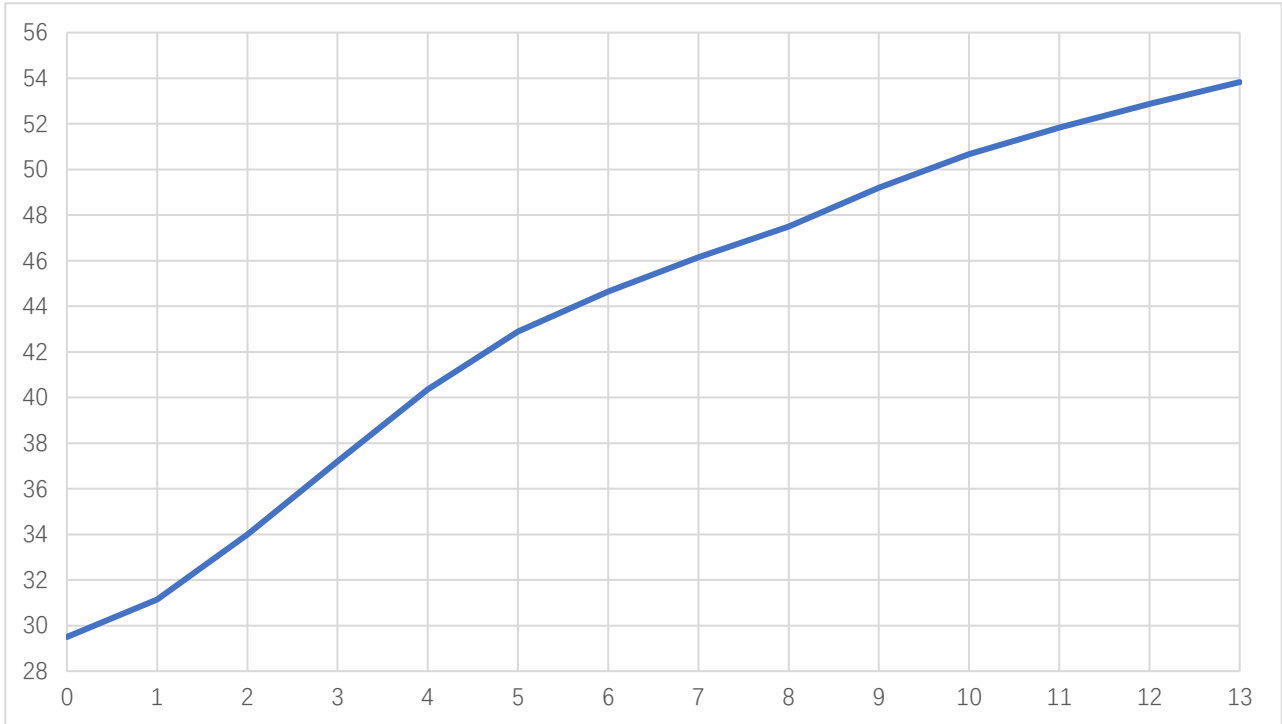




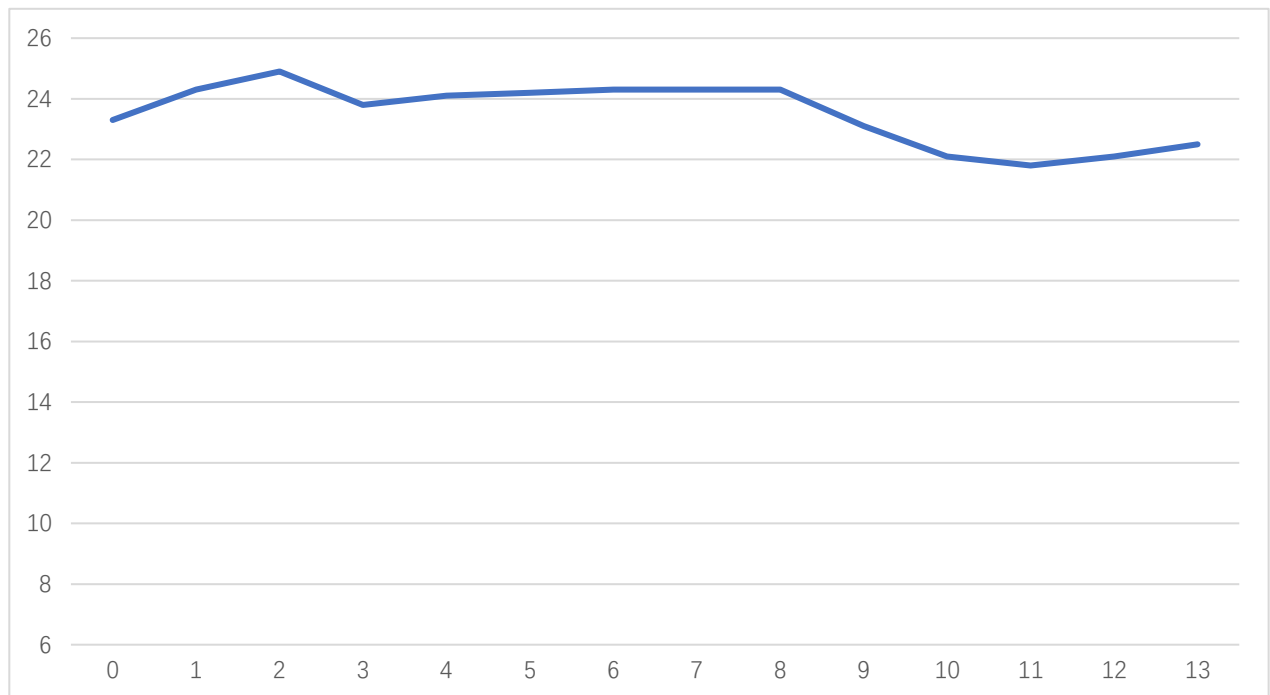
AT-VCO-3350X-22-24F

33-50GHz Voltage Control Oscillator

Test Data(25c)



Frequency vs Tuning Voltage.



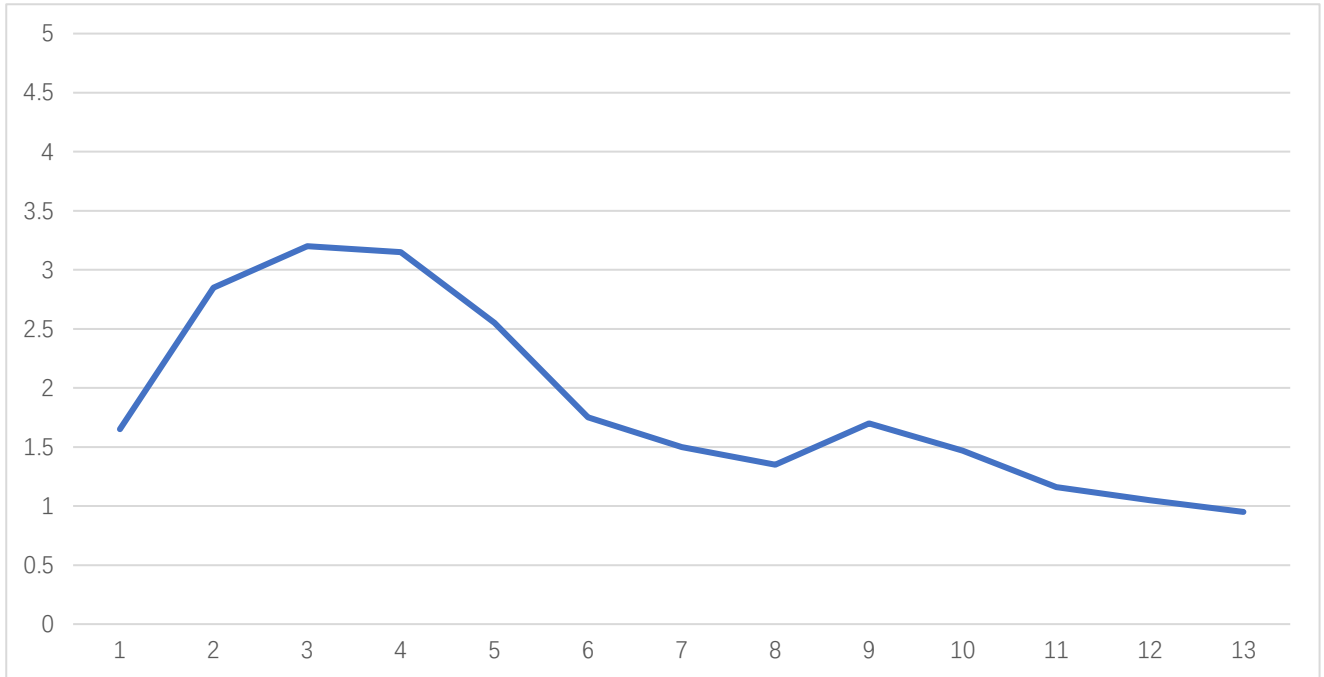
Pout vs Tuning Voltage





AT-VCO-3350X-22-24F

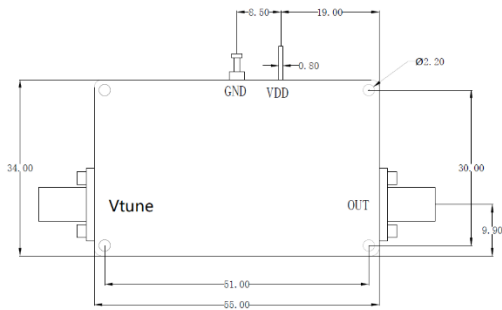
33-50GHz Voltage Control Oscillator



Tuning Sensitivity GHz/V vs Tuning Voltage

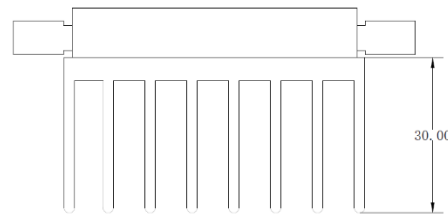
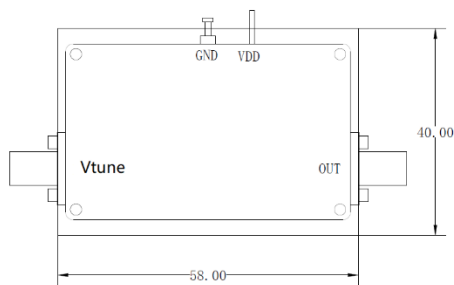


Dimension: (unit in mm)



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Length of a	9.4mm	9.5mm	10.8mm	11.3mm

Note: Female Default. Contact with us for other types.



Including a small heatsink without Fan if output Power higher than +20dBm.
Customers can remove it or use their own heatsink according to actual situation.

Heat Sink Required If Case Temp Higher Than 50C

