



AT-VCO-6090-10

60-90GHz Voltage Control Oscillator

60-90GHz Voltage Control Oscillator, High Power

Product Overview



AT-VCO-6090-10 is broadband voltage controlled oscillator with 60-90GHz output frequency and +10dBm power.

The wideband VCO is combined by a 10-20GHz VCO AT-VCO-1020A-10 and X6 Multiplier AT-AM6-6090-10.

More information, please visit 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		60-90GHz	
Output Power	+8	+10dBm	
Phase Noise @10kHz		-40dBc/Hz	
Phase Noise @100kHz		-72dBc/Hz	
Phase Noise @1MHz		-92dBc/Hz	
Vtune Range		0-10V	
Vtune Current		10 uA	25uA
Vdd		+5V	+12V
Current		500mA	
Sensitivity		2.9-4.2GHz/V	
Temp		25C	

Shanghai AT Microwave Limited

Tel:021-6229 1233

Email:sales@atmicrowave.com

www.atmicrowave.com





AT-VCO-6090-10

60-90GHz Voltage Control Oscillator

Mechanical Information

Item	Description
Vtune Port	SMA Female
RF Output Port	WR-12
Vdd Power Supply	PIN
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	50g

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
Vtune	+25V
Operating Temperature	0 to + 50C
Storage Temperature	-65 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.

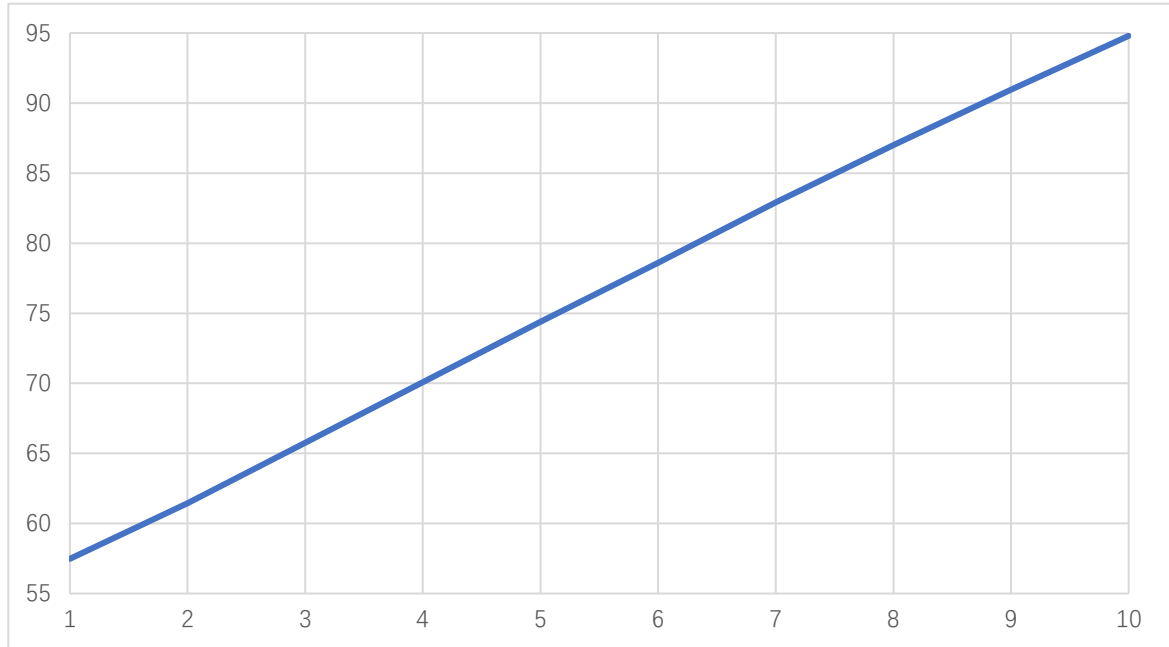




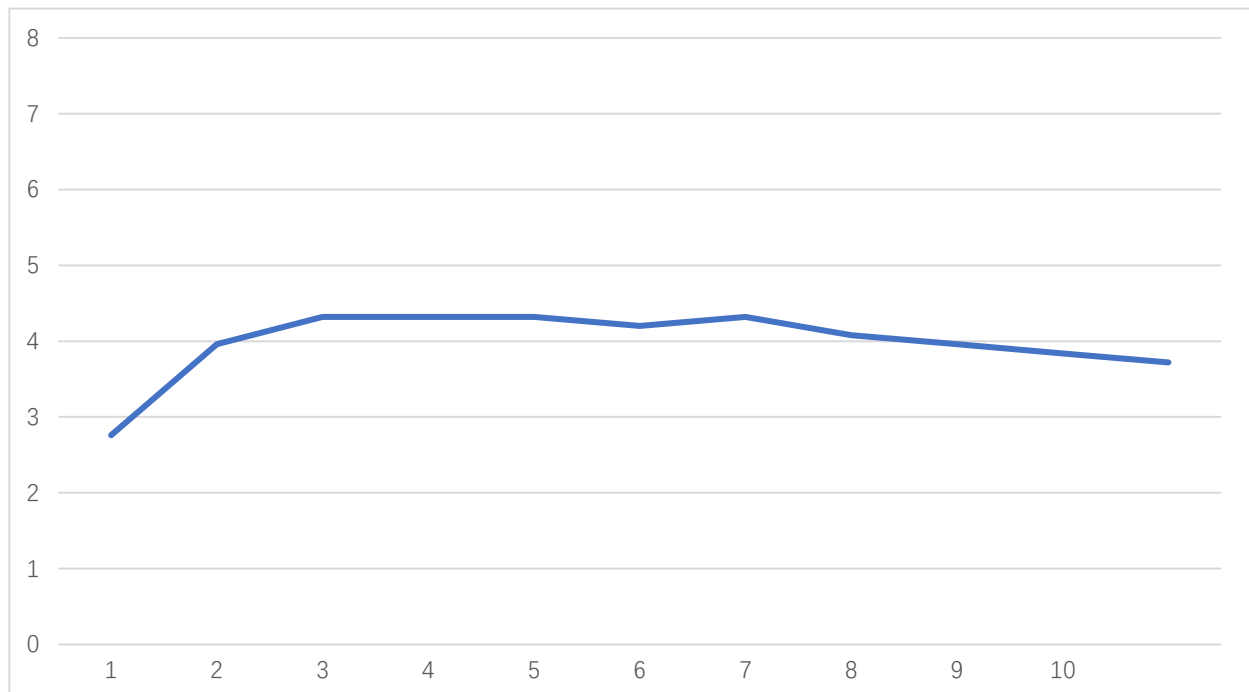
AT-VCO-6090-10

60-90GHz Voltage Control Oscillator

Test Data:



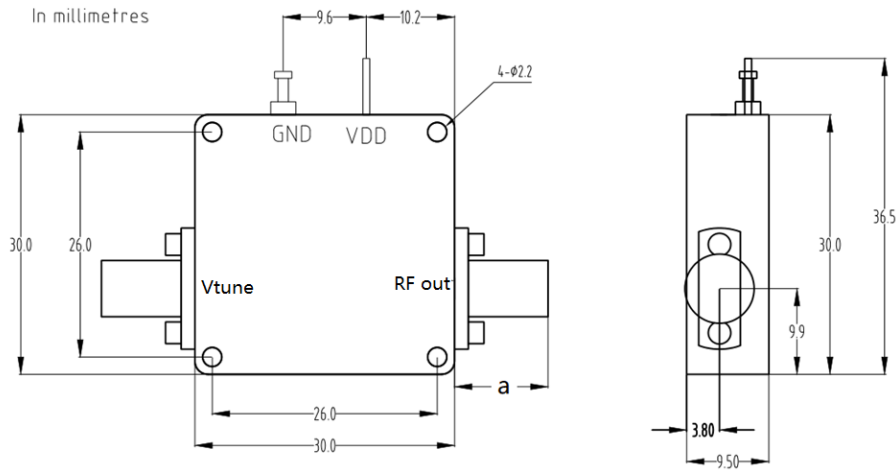
Frequency vs Tuning Voltage



Sensitivity vs Tuning Voltage



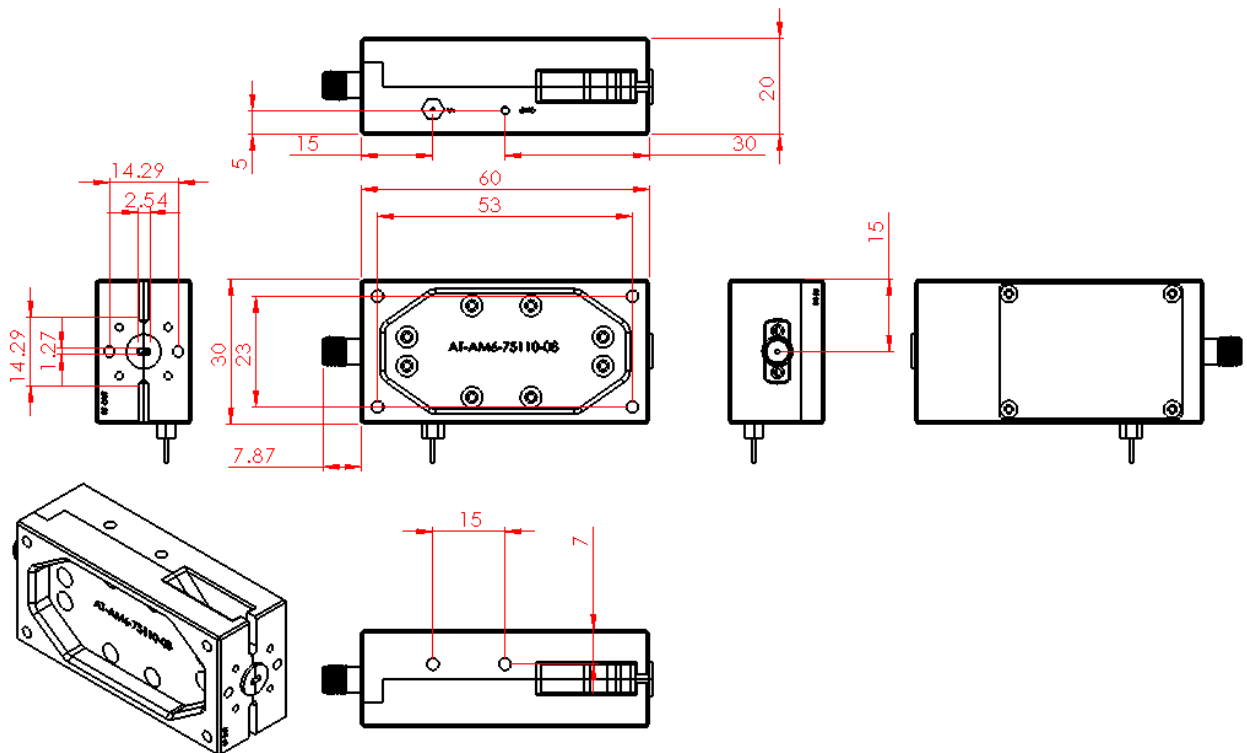
Dimension: (unit in mm)



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

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

AT-VCO-1020A-10 Dimension



AT-AM6-6090-10 Dimension

