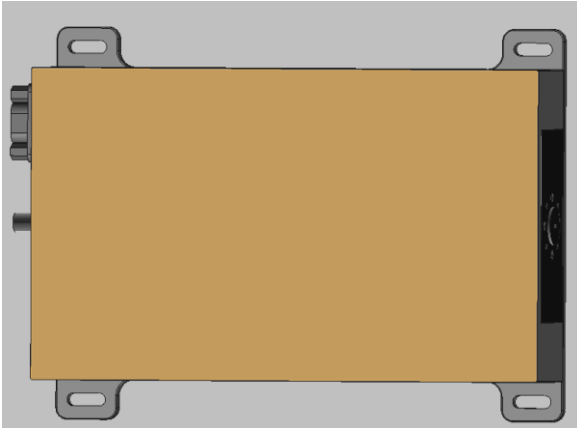




AT-VCO-75110-13D1

75-110GHz Voltage Control Oscillator

75-110GHz Voltage Control Oscillator, High Power=+13dBm, WR-10



Product Overview

AT-VCO-75110-13D1 is broadband voltage controlled oscillator with 75-110GHz output frequency and +13dBm power.

Vtune port is SMA Female, and Output is WR-10 Waveguide with UG-387/U-M Flanges. Power supply is +5V.

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		75-110GHz	
Output Power	+10	+13dBm	
Phase Noise @10kHz		-40dBc/Hz	
Phase Noise @100kHz		-72dBc/Hz	
Phase Noise @1MHz		-92dBc/Hz	
Vtune Range		5-15V	
Vtune Current		10 uA	25uA
Vdd		+5V	+8V
Current		0.5A	
Sensitivity		3.2-4.3GHz/V	
Temp		25C	





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Mechanical Information

Item	Description
Vtune Port	SMA Female
RF Output Port	WR-10
Vdd Power Supply	PIN
Case Material	Copper
Finish	Gold Plated
Weight	450g
Dimension	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
Vtune	+20V
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.

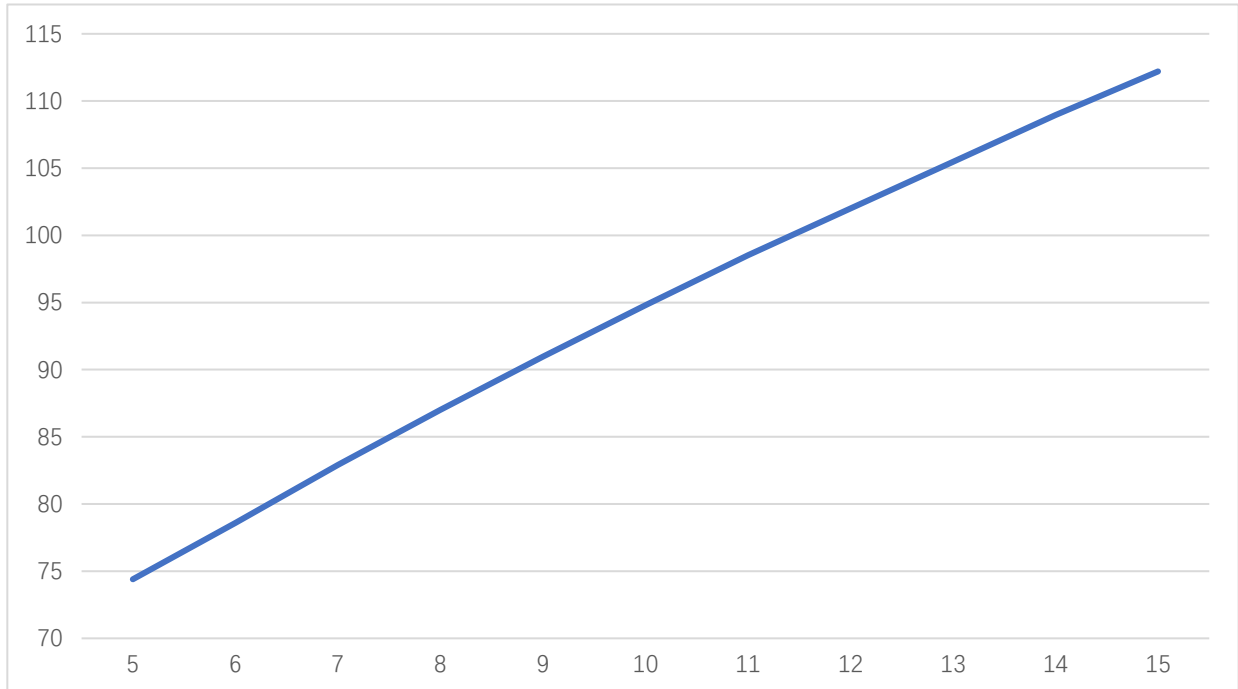




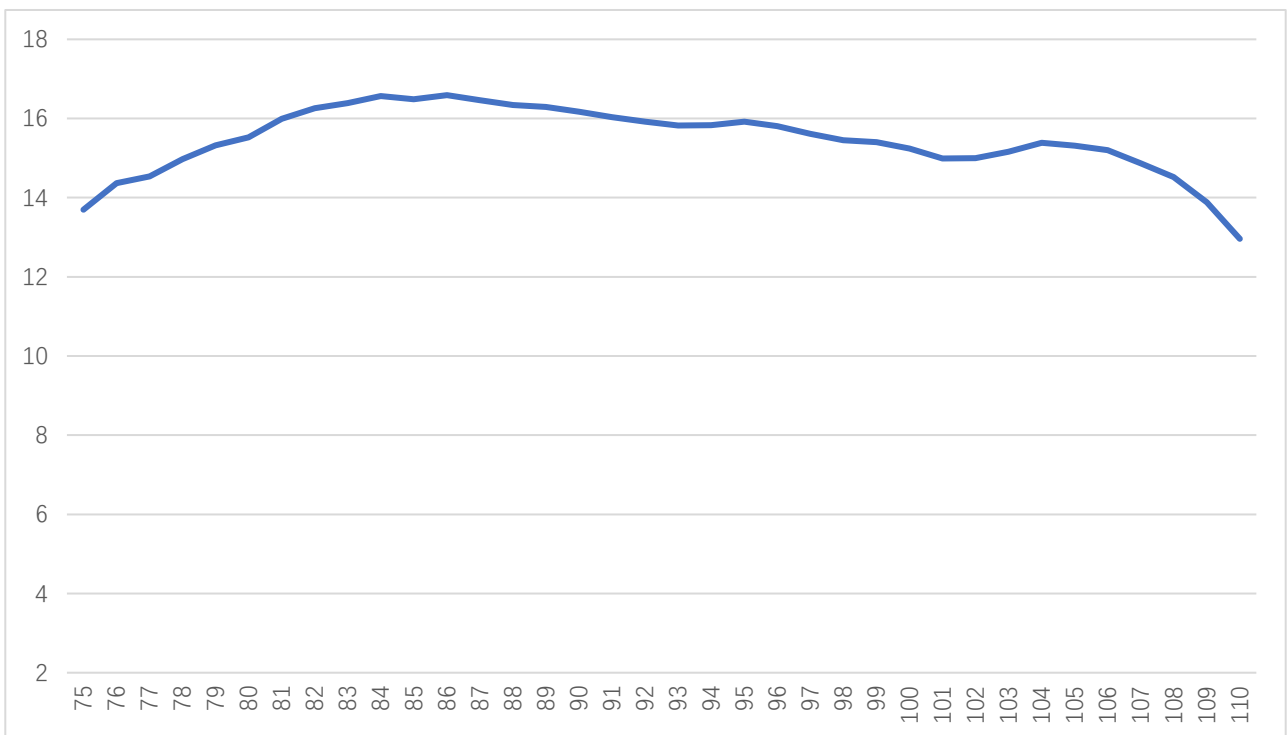
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Test Data

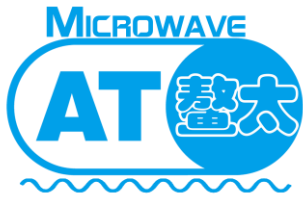


Frequency vs Tuning Voltage



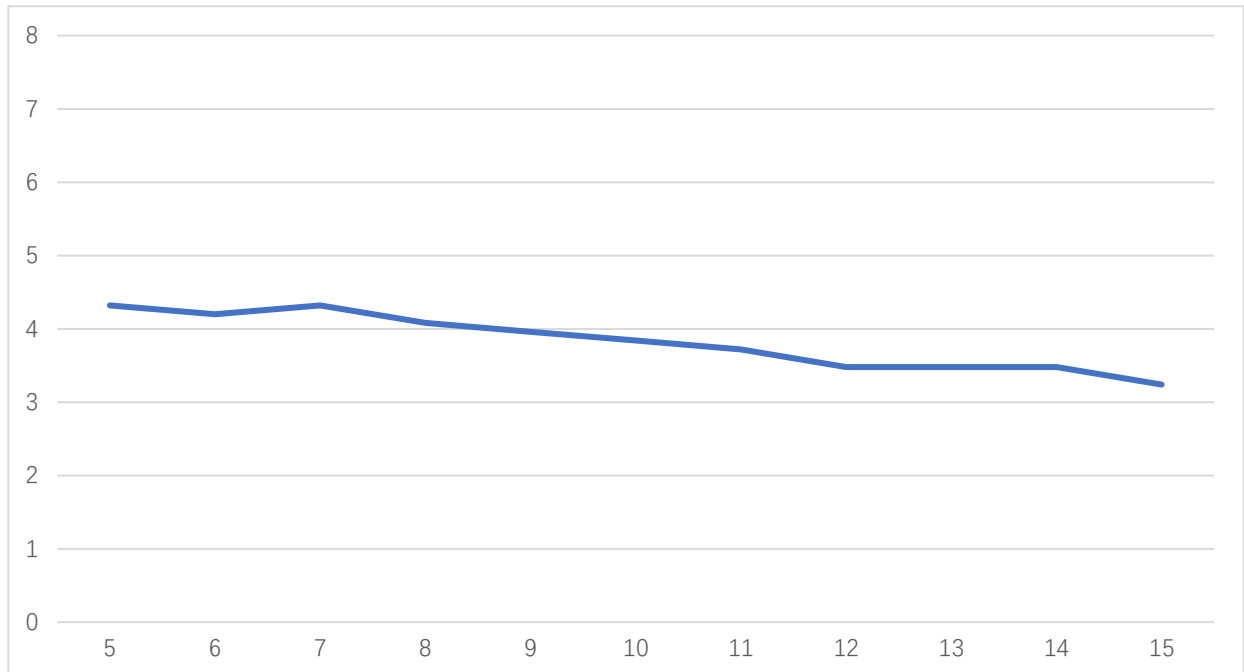
Pout vs Frequency





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Sensitivity vs Tuning Voltage

