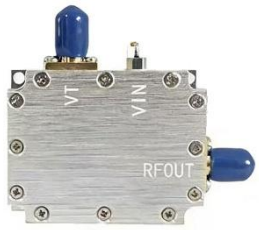
VMVO1300M3200M-12SMAF

FEATURES

- Exceptional Phase Noise
- Small Size



TYPICAL APPLICATIONS

- RF source

SPECIFICATIONS

Parameter	Unit	Min.	Typ.	Max.	Test Conditions
Voltage Supply	V	-	12	-	Low-noise linear power supply recommended
Current	mA	-	20mA	-	@12V
Tuning Voltage	V	0	-	16	
Output Frequency	MHz	1300	-	3200	
Output Power	dBm	3	-	-	In band
Output Waveform	-	Non-Sine			
Internal Filter		3400MHz low pass filter			
RF and Tuning Signal Interface		SMA-Female			To 13GHz
Phase Noise	dBc/Hz	-	-	-92	@10kHz
RF Impedance	Ω	-	50	-	
Tuning Input Impedance	kΩ	100	-	-	
Tuning Input Bandwidth	kHz	200	-	-	No internal low-pass filter or bypass capacitor
Power Interface	-	Feedthrough capacitor			Pin for positive power supply Ground plate for negative power supply
Size	mm	43*33*14			
Operating Temperature	℃	-25	-	+65	
Storage Temperature	℃	-45	-	+85	
Mounting Holes	-	Four corners, 2.5mm holes			

FREQUENCY VS POWER TABLE

Frequency (MHz)	Power (dBm)	Tuning Voltage (V)
1300	5.6	0-MIN
1500	5.4	
2000	5.8	
2500	4.6	
2800	4.6	
3000	5.2	
3200	4.2	16-MAX

TYPICAL PERFORMANCE CURVE

Fig 1 Power flatness and frequency bandwidth

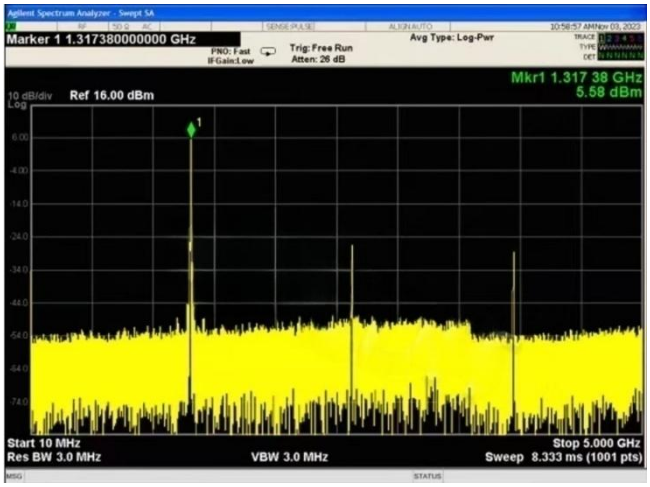


Fig 2 Output signal and harmonic at 1300MHz

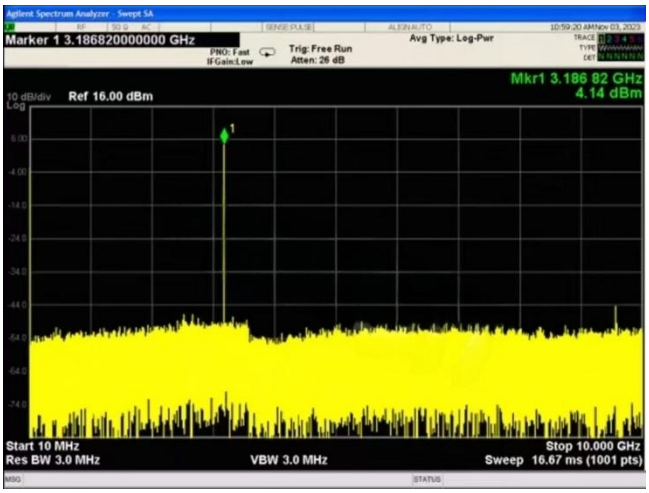
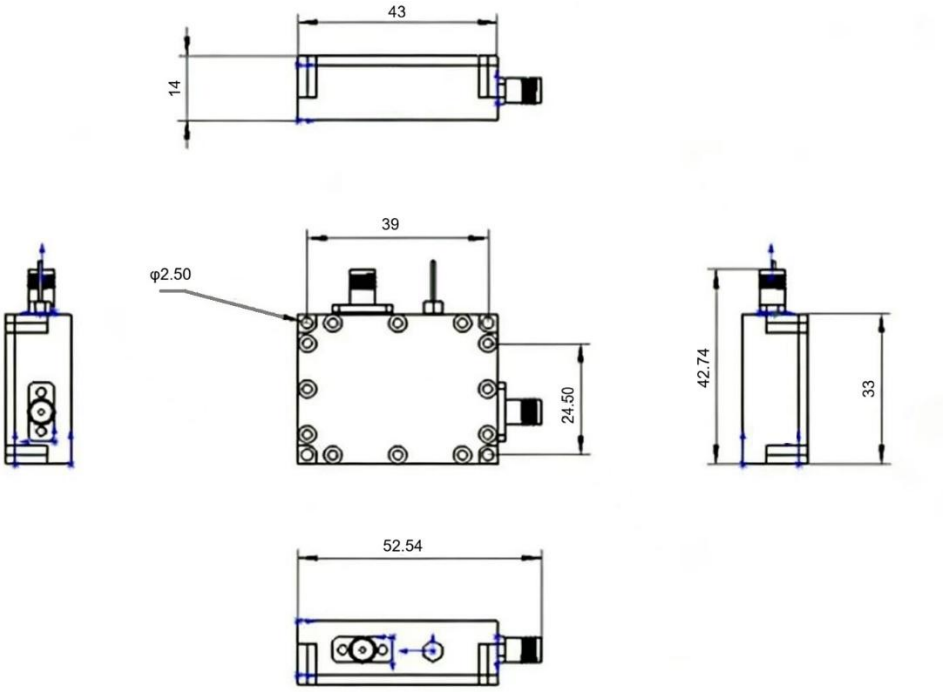


Fig 3 Output signal and harmonic at 3200MHz

OUTLINE AND SIZE

Unit:mm



INTERFACE DEFINITIONS

Label	Name	Function
Feedthrough capacitor	VIN	Voltage V+
Ground plate	VIN	Voltage V-
SMA-VT	VT	Tuning voltage input
SMA-RFOUT	RFOUT	RF out