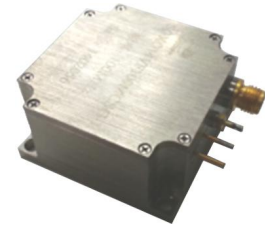
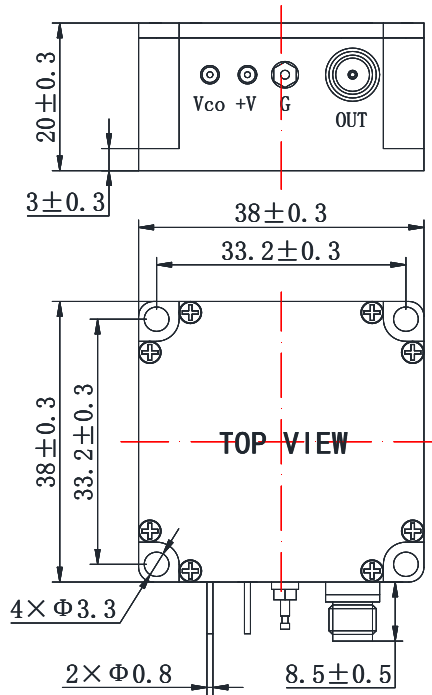


**ANTI-VIBRATION LOW PHASE NOISE OCXO****MODEL: SOXO14VF100MCSG****FEATURES****Ultra Low Phase Noise under Vibration (-150dBc/Hz@1kHz)****Miniature Package (38mm×38mm×20mm)****ELECTRONIC PARAMETERS**

Parameters		Conditions	Min.	Typ	Max.	Units
Nominal Frequency		—	100.000			MHz
Supply voltage		—	11.4	12	12.6	V
Package size		—	38×38×20			mm
Power consumption		During warm up	—	—	3.6	Watts
		Steady state @ 25°C	—	—	1.2	Watts
Freq. stability vs. load		$R_L \pm 5\%$	—	—	$\pm 20$	ppb
Freq. stability vs. supply voltage		$V_{DD} \pm 5\%$	—	—	$\pm 20$	ppb
Freq. stability vs. temperature		Referenced to 25°C (-40 to +70°C)	—	—	$\pm 0.1$	ppm
Freq. retrace		Power on after 1h, referenced to Freq. before power off 24h.	—	—	$\pm 50$	ppb
Initial tolerance		$V_{cont} = +4V @ 25^\circ C$	—	—	$\pm 0.5$	ppm
Aging	per day	After 30 days of continues operation	—	—	$\pm 5$	ppb
	per 1st year		—	—	$\pm 0.3$	ppm
	per 10 years		—	—	$\pm 2.0$	ppm
Operating temperature range		—	-40	—	70	°C
Warm up time		@ 25°C $\Delta F/F \leq \pm 0.5ppm$ (Based on Freq. After 1h)	—	—	3	min
Output wave		Connector: SMA-K	SINWAVE			—
Output power		$V_{DD} = 12V$	8	10	12	dBm
Output load		—	—	50	—	$\Omega$
Harmonics		—	—	—	-30	dBc
Spurious		—	—	—	-80	dBc
Pull range		$V_{cont} = 0$ to 8V	$\pm 1.0$	—	—	ppm
Linearity		—	—	—	$\pm 10$	%
Slope		—	positive			—
Control voltage		—	0	4	8	V
SSB Phase noise	@ 1kHz offset	Static	—	-162	-160	dBc/Hz
	@ 10kHz offset		—	-168	-165	dBc/Hz
	@ 100kHz offset		—	-172	-170	dBc/Hz
	@ 1kHz offset	dynamic	—	-150	-145	dBc/Hz
	@ 10kHz offset		—	-165	-160	dBc/Hz
	@ 100kHz offset		—	-170	-165	dBc/Hz

**PACKAGE**



**PIN DESCRIPTION**

VCO: Control Voltage Input

+V: Supply Voltage

G : Ground Case

OUT: RF Output

**TYPICAL SSB PHASE NOISE UNDER VIBRATION**



**Notes:** For other frequency or special requirements, please consult with the supplier.