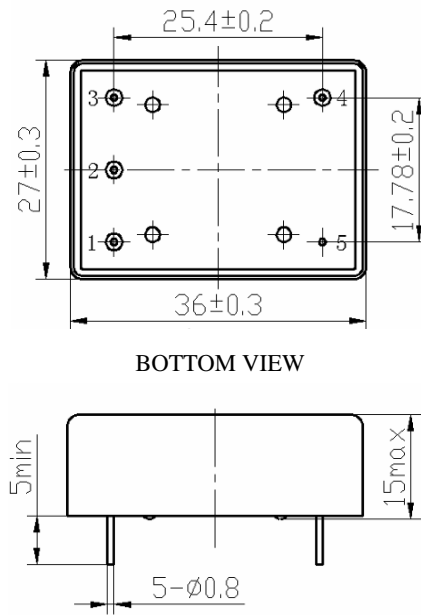


**ULTRA STABLE OCXO****MODEL: SOXO20BF10MAHBB****FEATURES****High Stability (0.5ppb)****Low Aging (0.1ppb/day)****Miniature Package (36mm×27mm×13mm)****ELECTRONIC PARAMETERS**

Parameters		Conditions	Min.	Typ	Max.	Units
Nominal Frequency		—	10.000			MHz
Supply voltage		—	4.75	5	5.25	V
Package size		—	36*27*15			mm
Power consumption		During warm up	—	—	5	Watts
		Steady state @ 25℃	—	—	2	Watts
Freq. stability vs. load		$C_L \pm 10\%$	—	—	$\pm 0.3$	ppb
Freq. stability vs. supply voltage		$V_{DD} \pm 5\%$	—	—	$\pm 0.3$	ppb
Freq. stability vs. temperature		-40 to +70 ℃	—	—	$\pm 0.5$	ppb
Freq. retrace		Power on after 15min, referenced to Freq. before power off 24h.	—	—	$\pm 10$	ppb
Warm up time		15 min power on @25℃ vs. 1 hour power on	—	—	$\pm 10$	ppb
Initial tolerance		$V_{cont}$ is NC @25℃	—	—	$\pm 0.05$	ppm
Short Term Stability		Test @25℃	—	5E-12	1E-11	/s
Aging	per day	After 30 days of continues operation	—	$\pm 0.1$	$\pm 0.2$	ppb
	per 1st year		—	—	$\pm 10$	ppb
	per 10 years		—	—	$\pm 0.05$	ppm
Output wave		—	LVTTL			—
Output load		—	—	15	—	pF
Output level		—	“1” $\geq 2.8$			V
			“0” $\leq 0.3$			
Rise/fall time		—	—	—	6	ns
Duty cycle		—	45	—	55	%
Pull range		$V_{cont}=0$ to 3.3V	0.5	—	—	ppm
Slope		—	positive			—
Operating temperature range		—	-40	—	70	℃
Storage temperature range		—	-55	—	85	℃
Phase noise	@ 10Hz offset	@ 10MHz	—	—	-120	dBc/Hz
	@ 100Hz offset		—	—	-140	dBc/Hz
	@ 1kHz offset		—	—	-150	dBc/Hz
	@ 10kHz offset		—	—	-155	dBc/Hz

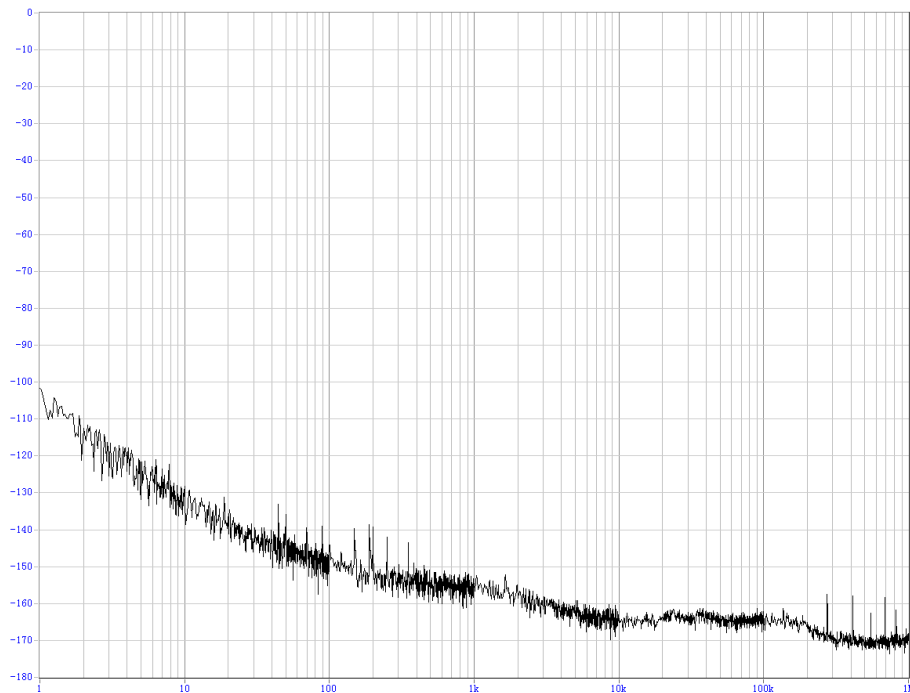
**PACKAGE**



**PIN DESCRIPTION**

1. Control Voltage Input; **Vcont**
2. No Connection / Reference Voltage; **NC/Vref**
3. Supply Voltage; **Vdd**
4. RF Output; **OUT**
5. Ground Case; **GND**

**TYPICAL SSB PHASE NOISE**



**Notes: Consult factory about other frequencies or special requirement.**