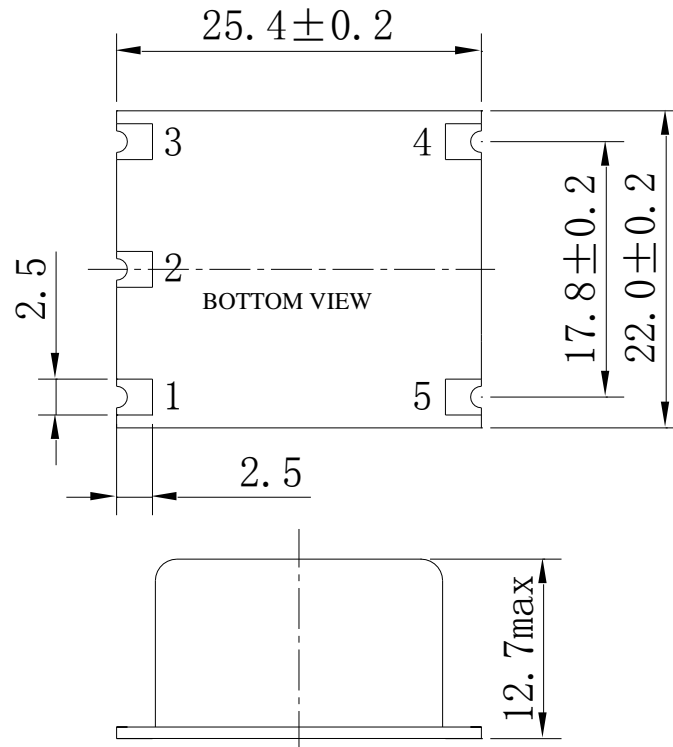


**LOW PHASE NOISE OCXO****MODEL: SOXO19C40MASH****Electronic Parameters**

Parameters		Conditions	Min.	Typ	Max.	Units
Nominal Frequency		—	40.000			MHz
Supply voltage		—	4.75	5	5.25	V
Package size		—	25.4×22×12.7			mm
Power consumption		During warm up	—	—	3.6	Watts
		Steady state @ 25°C	—	—	1.4	Watts
Freq. stability vs. load		$R_L \pm 10\%$	—	—	± 2	ppb
Freq. stability vs. supply voltage		$V_{DD} \pm 5\%$	—	—	± 5	ppb
Freq. stability vs. temperature		-20 to +70 °C	—	—	± 10	ppb
Initial tolerance at delivery		@25°C	—	—	± 0.2	ppm
Aging	per day	After 30 days of continues operation	—	—	± 1.0	ppb
	per 1st year		—	—	± 0.1	ppm
	per 10 years		—	—	± 0.5	ppm
Operating temperature range		—	-20	—	70	°C
Warm up time		@ 25 °C $\Delta F/F \leq \pm 0.3\text{ppm}$ (Based on Freq. After 1h)	—	—	3	min
Output wave		—	HCMOS			—
Output load		—	—	15	—	pF
Output level		—	“1” ≥ 2.8			V
			“0” ≤ 0.3			
Rise/fall time		—	—	—	6	ns
Duty cycle		—	45	—	55	%
Pull range		$V_{cont}=0$ to 3.3V	± 0.7	—	—	ppm
Linearity		—	—	—	± 10	%
Slope		—	positive			—
Control voltage		—	0	—	3.3	V
Phase noise	@ 10Hz offset	@ 40MHz	—	—	-110	dBc/Hz
	@ 100Hz offset		—	—	-125	dBc/Hz
	@ 1kHz offset		—	—	-145	dBc/Hz
	@ 10kHz offset		—	—	-155	dBc/Hz
	@ 100kHz 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**