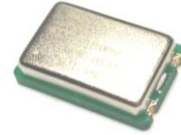
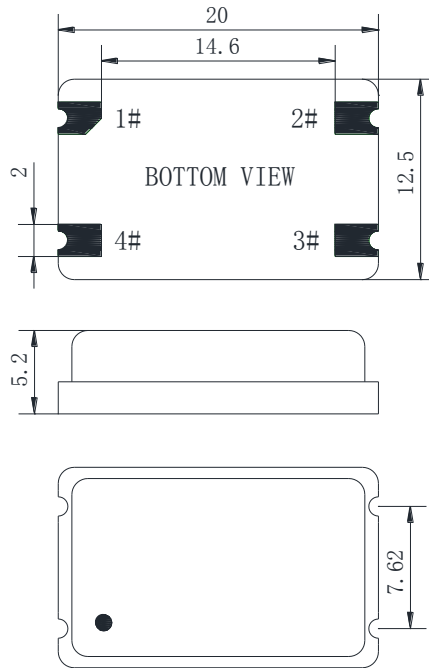


**LOW PHASE NOISE TCXO****MODEL: STXO13D100MBSH****FEATURES****Low Phase Noise (-145dBc/Hz@1kHz)****High Stability (0.5ppm)****Wide Frequency Range (up to 150MHz)****Miniature Package (20mm×12.5mm×5.2mm)****ELECTRONIC PARAMETERS**

Parameters	Conditions	Min.	Typ	Max.	Units	
Nominal Frequency	—	100.000			MHz	
Supply voltage	—	4.75	5	5.25	V	
Package size	—	20×12.5×5.2			mm	
Power consumption	—	—	—	25	mA	
Freq. stability vs. load	$R_L \pm 5\%$	—	—	$\pm 0.2$	ppm	
Freq. stability vs. supply voltage	$V_{DD} \pm 5\%$	—	—	$\pm 0.2$	ppm	
Freq. stability vs. temperature	Referenced to 25°C (-40 to +85 °C)	—	—	$\pm 0.5$	ppm	
Initial tolerance	$V_{cont} = +1.5V @ 25^\circ C$	—	—	$\pm 1$	ppm	
Aging	per 1st year	—	—	$\pm 1$	ppm	
Operating temperature range	—	-40	—	85	°C	
Output wave	—	SINWAVE			—	
Output power	$V_{DD} = 5V$	7	8	9	dBm	
Output load	—	—	50	—	$\Omega$	
Harmonics	—	—	—	-30	dBc	
Spurs	—	—	—	-70	dBc	
Pull range	$V_{cont} = 0$ to 3V	$\pm 3$	—	—	ppm	
Linearity	—	—	—	$\pm 10$	%	
Slope	—	positive			—	
Control voltage	—	0	1.5	3.0	V	
SSB Phase Noise	@ 100Hz offset	@ 100MHz	—	-115	-110	dBc/Hz
	@ 1kHz offset		—	-145	-140	dBc/Hz
	@ 10kHz offset		—	-155	-150	dBc/Hz
	@ 100kHz offset		—	-160	-155	dBc/Hz

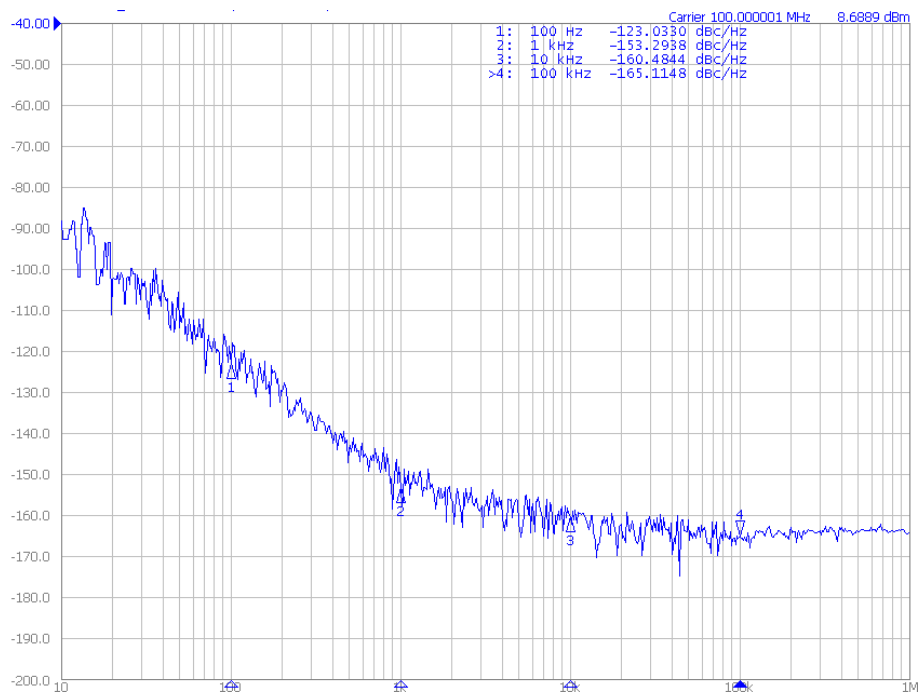
**PACKAGE**



**PIN DESCRIPTION**

1. Control Voltage Input; **Vcont**
2. Ground Case; **GND**
3. RF Output; **OUT**
4. Supply Voltage; **Vdd**

**TYPICAL SSB PHASE NOISE**



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