



Features and Benefits

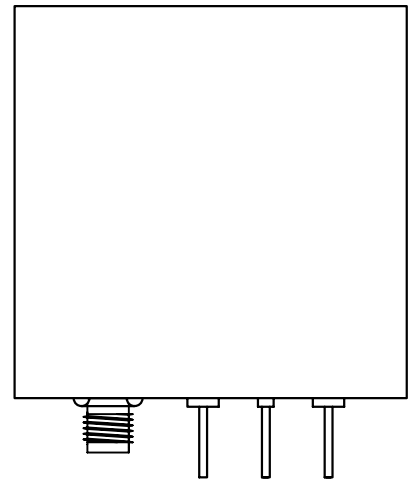
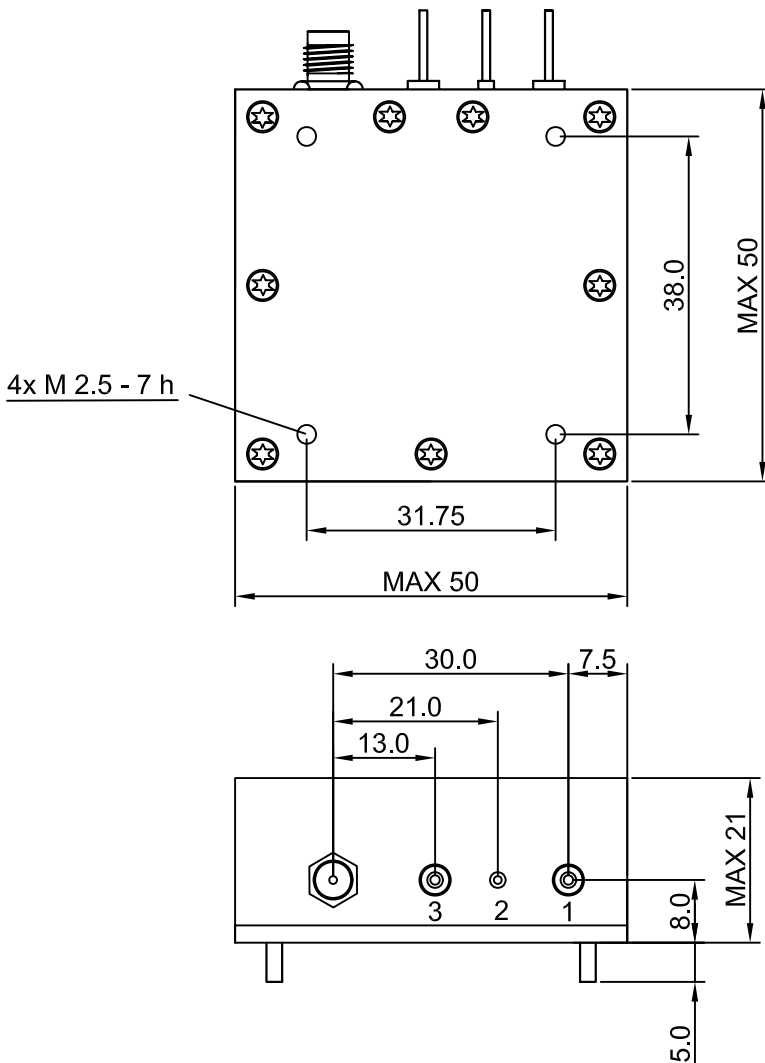
Frequency Range: 3 to 12GHz
Phase Noise (typ.): -120 dBc/Hz at 100 KHz offset
Sine Wave output

Typical Applications

Microwave Communications LO

Mechanical Drawing & Pin Connections

Drawing No: MD1600, \$-1



Pin Connection:

Pin#	Symbol	Function
1	Vs	Supply Voltage
2	GND	Ground
3	LD	Lock Detect Output
SMA	RF OUT	RF Output

Unit : mm
1mm=0.039inch

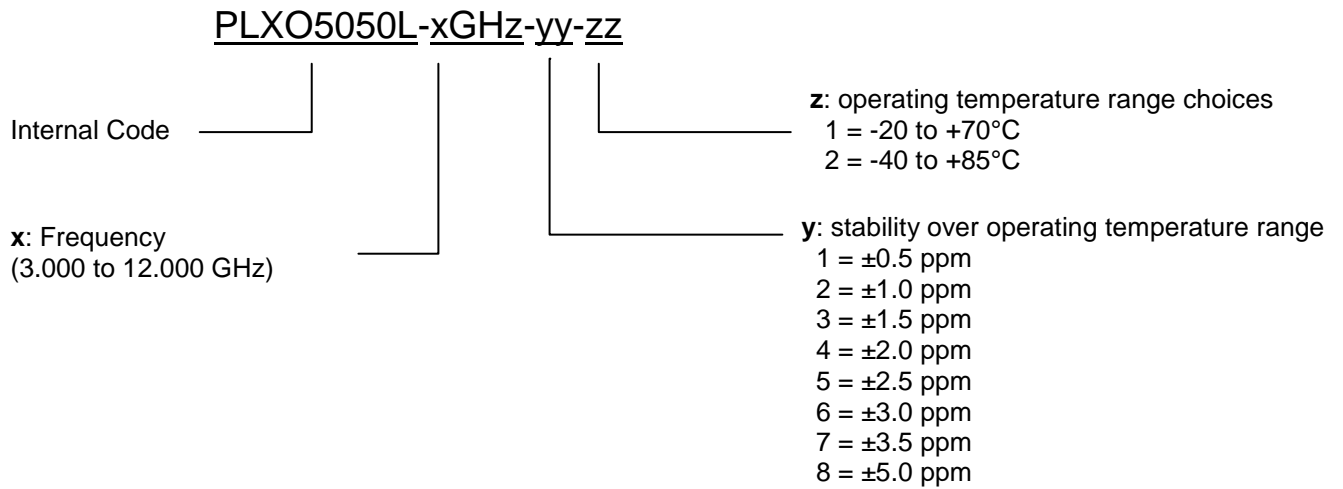


Specifications

TCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	f_{out}	Multiplication	3		12	GHz	Multiplication factor N depends on output frequency f_{out}
RF Output							
Output Waveform			Sine Wave				
Load	R_L		50			Ω	+/-5%
Output Level			+10	+13		dBm	
Harmonics					-30	dBc	
Sub-harmonics					-40	dBc	
Spurious					-80	dBc	
PLL Products					-60	dBc	
Phase Noise		@ 100 KHz		-120	-110	dBc/Hz	
Lock Detect (LD) Output		Out of Lock		0	1.0	V	
		Locked	2.3	3.3			
Power Supply							
Voltage	V_s		11.4	12.0	12.6	V	
Current Consumption				250	350	mA	
Frequency Stability							
Initial Tolerance at +25°C					±1	ppm	
Vs. Operating Temperature Range			±0.5 to ±5.0 See Ordering System			ppm	
Vs. Supply Voltage Change (pushing)	V_s	$V_s \pm 5\%$			±0.1	ppm	
Vs. Load Change (pulling)		$R_L \pm 5\%$			±0.1	ppm	
Long Term Aging 1 st Year		After 30 days operation			±1.0	ppm	
Environmental Conditions							
Operating temperature range	-40 to +85°C						
Storage temperature range	-55 to +105°C						
Size	50.0 x 50.0 x 21.0 mm max.						
Weight	60g max.						



Ordering System



Example

PLXO5050L-10.000GHz-2-1

Frequency = 10.00 GHz
Stability Over Operating Temperature Range = ± 1.0 ppm
Temperature Range = -20 to +70°C