Features and Benefits

Temp. stability less than +/- 20 ppb -30C to +70C operation 20 MHz +5 dBm sine output 5.0V

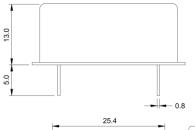
Typical Applications

GPS or Beidou Navigation Systems Test Equipment, and synthesizers Communications Systems

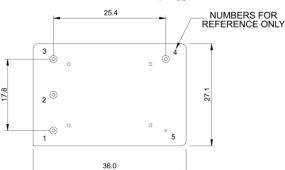
Description

The OCXO3627N ovenized oscillator family is a standard Euro-style package configuration offering excellent stability, good phase noise, and consistent high quality on all production lots.

Mechanical Drawing & Pin Connections



PIN NO.	CONNECTIONS			
1	Voltage Control			
2	Reference Voltage			
3	Supply Voltage			
4	RF Output			
5	Ground			
	Unit = mm			



Specification

Oscillator Specification		Sym Condition		Value			Note	
			Condition	Min.	Тур.	Max.	Unit	Note
Operational Frequency Range		F_{nom}			20.000000		MHz	
	Output Level			+5.0	+7.0	+9.0	dBm	
Sine	Harmonics					-40.0	dBc	
Sille	Spurious					-80.0	dBc	
	Output Load			45	50	55	ohms	
Power Supp	ly							
Voltage		V_{cc}		4.75	5.00	5.25	V	
Power Consu	Dower Consumption		Warm-up			4	Watts	
Power Consumption			Steady-state, +25°C			1.5	Watts	
Warm-up Time:		T_{up}	To within +/- 1e-7, at +25°C			300	seconds	ref. frequency after 15 min.
Frequency C	ontrol*							
Control voltage	Control voltage range (Pin 1)			0.0	2.5	5.0	V	
Frequency Tu	Frequency Tuning range			+/- 0.8		+/- 2.4	ppm	
Reference voltage Output (Pin 2)				4.75	5.00	5.25	V	
Frequency S	tability							
Versus temperature			-30°C to +70°C, ref 25°C	-20.0		+20.0	ppb	
Tolerance at 25°C			After turn on +15 minutes	-100		+100	ppb	
Versus 5% change in supply voltage				-2.0		+2.0	ppb	
Daily Aging			Per Day maximum after 30 days on	-1.0		+1.0	ppb	
First Year Aging				-100		+100	ppb	
Ten Year Aging				-600		+600	ppb	
SSB Phase noise (typ.) @ 20 MHz +5.0 dBm output			10 Hz		-110.0			
			100 Hz		-135.0		dBc/Hz	
			1000 Hz		-145.0		dBC/112	
			10 KHz		-150.0			
			100 KHz		-150.0			
Short-Term	Tau = 1 second		After 60 minutes ON					
	100 samples					1.0	E-11	
	tal Conditions							
	nperature range		o +70°C					
Storage temp	erature range	-40°C to	o +90°C					