Features and Benefits

High frequency stability (up to ±0.25ppm over -40°C to +85°C) CMOS Output SMD Miniature package

TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

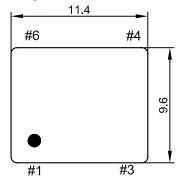
Typical Applications

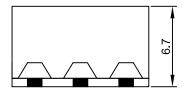
5G Repeater Link and micro cells Low noise microwave

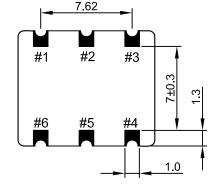
Description

TCXO911BTLG_series offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

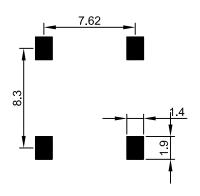
Mechanical Drawing & Pin Connections







Drawing No: MD19000) -1



Pin Connection

#1	GND				
#2	N.C.				
#3	GND				
#4	Output				
#5	N.C.				
#6	Vcc				

Unit in mm 1mm = 0.0394 inches

Dynamic Engineers Inc.

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TCXO91%BTLG_series Wdæl[, Á[ã^Á[[¦ÉŠ[, ÁÕÁÛ^}•ããã;ãc ÁVÔÝUÁÁ

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note	
	•		Min.	Тур.	Max.		Note	
Operational Frequency	F _{nom}			50,75,100,12	5	MHz		
Symmetry			50 % ±5%					
Output load			10 pF Max.					
CMOS VOH			> 0.9 x Vcc				Sine wave on	
VOL			< 0.1 x Vcc				request	
Power Supply								
Voltage	V _{cc}			3.30		V		
Current Consumption					25	mA	Without load	
Frequency Stability								
Versus temperature		-40°C to 85°C, ref to (fmax+fmin)/2	-1		+1	ppm	±0.25 and ±0.5ppm on request	
Tolerance at 25°C			0		+1.0	ppm		
Versus ±5% change in supp voltage	ly	Ref to frequency at nominal supply	-0. 05		+0.05	ppm		
Versus ±10% change in load	d	Ref to frequency at nominal load	-0.05		+0.05	ppm		
Sub harmonics					-60	dBc		
First Year Aging		@40°C	-1.0		+1.0	ppm		
G Sensitivity			0.4 ppb/g per axis, 10 ~ 2'000Hz Max. 0.25 ppb/g per axis, 10 ~ 2'000Hz Typ					
Phase noise (typ.) @125MHz		100 Hz		-105				
		1000 Hz		-128				
	łz	10 KHz		-150		dBc/Hz		
		100 KHz		-170				
		1000 KHz		-175				
Short-Term Stability	ADEV	Tau = 1 second			1.0	E-10		
Environmental Conditions								
Operating temperature rang								
Storage temperature range	-55°C to	105°C						
Reflow profiles as per IPC/JEDEC J-STD-020C	≤ 245 °C	≤ 245 °C over 10 s max.						