

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Features and Benefits

Frequency range: 26MHz Supply voltage: 3.3V Steady current: 15mA Max Output waveform: LVCMOS Frequency stability vs. operating temperature: ±0.5ppm Aging: ±1.0ppm per year Phase noise@1KHz: -130dBc/Hz Operating temperature: -20°C to +70°C Size: 7.0x5.0x1.9mm

Typical Applications

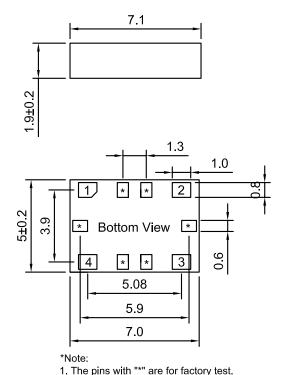
Base Stations Instrumentations Synthesizer SDH/SONET Medical Electronics

Description

TCXO7500CL-26MHz-A offers wide temperature operation from -20°C to +70°C with outstanding frequency stability and low phase noise performance.

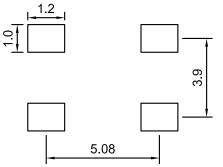
Mechanical Drawing & Pin Connections

Drawing No: A8 &%\$\$&%%



2. Leave pin1 unconnected if Vcon is not used

Recommended Land Pattern



PIN	FUNCTION			
#1	Control voltage			
#2	GND			
#3	RF output			
#4	Supply voltage			

Unit in mm 1mm = 0.0394 inches

Dynamic Engineers, Inc.

Rev. 1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Specifications

Oscillator Specification	Sym	Condition	Value			11-14	
			Min.	Тур.	Max.	Unit	Note
Operational Frequency	Fnom			26		MHz	
Output			LVCMOS				
Output Level			V _{OH} ≥ 2.4 V _{OL} ≤ 0.4			V	
Output load			15 pF				
Duty Cycle		(V _{OH} - V _{OL})/2	45		55	%	
Rise/Fall					6	ns	
Power Supply							
Voltage	V _{cc}			3.30		V	
Current Consumption			5		15	mA	
Frequency Stability						· ·	
Vs temperature		-20°C to +70°C			±0.5	ppm	
Vs supply voltage changes		±5%			±0.1	ppm	
Initial Tolerance		At shipment, nominal EFC	±0.05		±0.5	ppm	@25°C
First Year Aging					±1.0	ppm	
Phase noise		1 KHz			-130	dBc/Hz	
Environmental Conditions							
Operating temperature range	-20°C to	o +70°C					
Storage temperature range	-55°C to	o +125°C					