

Dynamic Engineers Inc.

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

Drawing No:

MD210010-1

Features and Benefits

Frequency range:25MHz Supply voltage: 3.3V Steady current: 8.0mA Max Output waveform: HCMOS Frequency stability vs. operating temperature: 0.28ppm Aging: 0.02ppm 24 hours aging @ 25 °C after 10days' continuous operation Phase noise@10KHz: -150dBc/Hz Operating temperature: -40°C --+85°C Size: 5x3.2x1.65mm

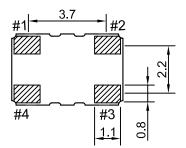
Typical Applications

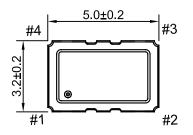
Repeater Link and micro cells Low noise microwave

Description

TCXO5300BJ-STR3-25MHz-A offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

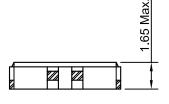
Mechanical Drawing & Pin Connections

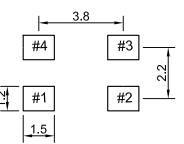




PIN FUNCTIONS

Pin	Function				
#1	N.C.				
#2	GND				
#3	Output				
#4	Vdd				





Recommended soldering pattern

Unit in mm 1mm = 0.0394 inches

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Rev. 1

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Specifications

Oscillator Specification	Sym	Condition	Min.	Value Typ.	Max.	Unit	Note
Operational Frequency	Fnom			25		MHz	
Output				HCMOS			
Output level			$VOL \leqslant 10\% Vcc$ $VOH \geqslant 90\% Vcc$				
Output load				1K ohm // 15 pF			
Power Supply							
Voltage	V _{cc}	±5%		3.3		V	
Current Consumption					8.0	mA	
Frequency Stability			1	-			
Versus temperature		-40°C to +85°C			±0.28	ppm	
Overall stability		incl. nominal frequency tolerance, frequency stab. vs. temp., vs. supply voltage, vs. load changes and 20 years aging			±4.6	ppm	
Versus ±5% change in supply voltage					±0.3	ppm	
Versus ±10% change in load					±0.2	ppm	
Aging		24 hours aging @ 25 °C after 10 days continuous operation			±0.02	ppm	
Phase noise		100Hz		-117			
		1KHz		-137		dBc/Hz	
		10KHz		-150			
Environmental Conditions	4000 (0500					
Operating temperature range		0 +85°C					
Moisture Sensitivity Level ESD Protection Level		EDEC J-STD-020E): MSL 1	Close M2				
ESD FIDLECTION LEVEL	(AINOI/I	ESD STM5.2):HBM: Class 2; MM:	Ciass IVIZ				

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