



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

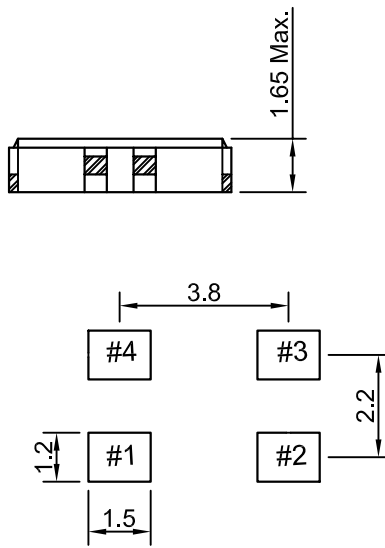
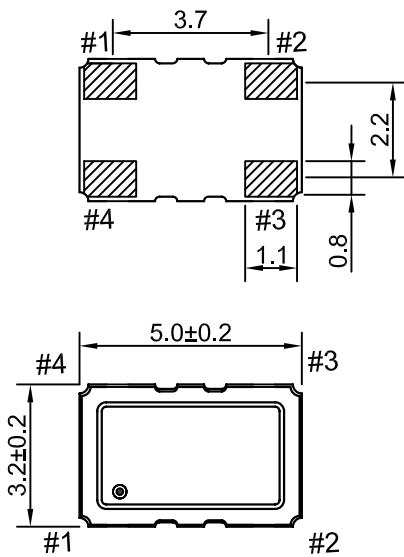
- Repeater
- Link and micro cells
- Low noise microwave

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

Drawing No: MD210010-1



Recommended soldering pattern

PIN FUNCTIONS

Pin	Function
#1	N.C.
#2	GND
#3	Output
#4	V _{DD}

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}		25			MHz	
Output			HCMOS				
Output level			VOL ≤ 10% V _{cc} VOH ≥ 90% V _{cc}				
Output load			1K ohm // 15 pF				
Power Supply							
Voltage	V _{cc}	±5%		3.3		V	
Current Consumption					8.0	mA	
Frequency Stability							
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	dBc/Hz	
		1KHz			-137		
		10KHz			-150		
Environmental Conditions							
Operating temperature range	-40°C to +85°C						
Moisture Sensitivity Level	(IPC/JEDEC J-STD-020E): MSL 1						
ESD Protection Level	(ANSI/ESD STM5.2):HBM: Class 2; MM: Class M2						