



Features and Benefits

Frequency range: 26MHz
 Supply voltage: 3.3V
 Steady current: 4mA Max
 Output waveform: (LV)CMOS
 Frequency stability vs. operating temperature: ±0.2ppm
 Aging: ±0.8ppm per year
 Phase noise@100KHz: -156dBc/Hz
 Operating temperature: -40°C to +85°C
 Size: 7x5x1.75mm

Typical Applications

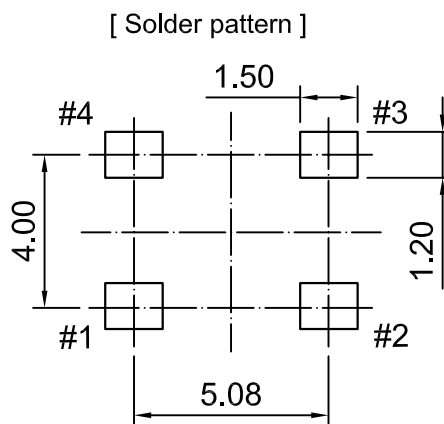
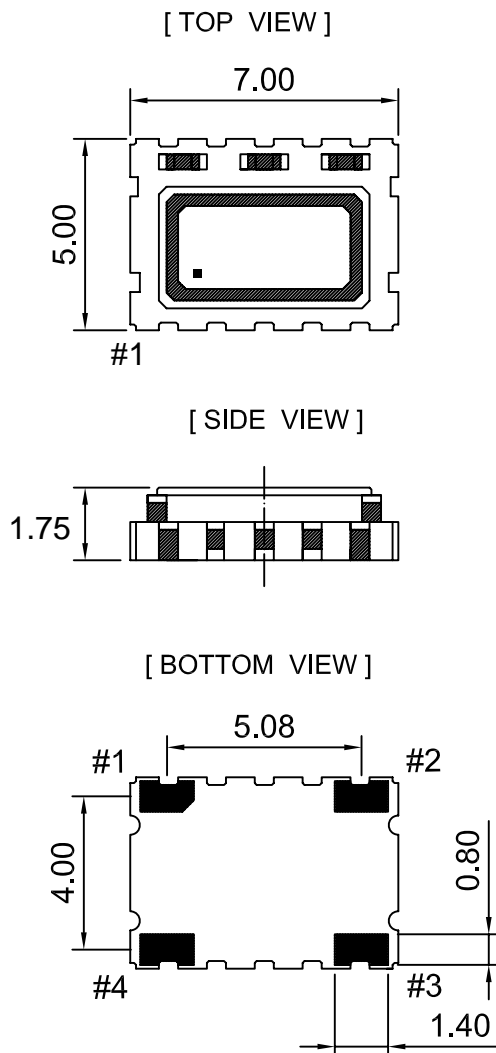
UHF Synthesizers
 SATCOM System
 Portable Microwave Applications

Description

TCXO7500BT-26MHz-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: A8% \$\$\$(!+



PIN	FUNCTION
#1	GND or N.C.
#2	GND
#3	RF output
#4	Vdc

Unit in mm
 1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}			26		MHz	
Output			(LV)CMOS				
Output Level			V _{OH} ≥ 0.9 x V _{CC} V _{OL} ≤ 0.1 x V _{CC}				
Output load			1kΩ // 15 pF				
Power Supply							
Voltage	V _{CC}	±5%		3.30		V	
Current Consumption					4	mA	
Frequency Stability							
Vs temperature		-40°C to 85°C, ref to (f _{max} +f _{min})/2			±0.2	ppm	
Vs supply voltage changes		±5%, referenced to frequency at nominal supply			±0.1	ppm	
Vs load changes		±5%, referenced to frequency at nominal load			±0.1	ppm	
Tolerance at 25°C			0		+1.0	ppm	
First Year Aging		@+40°C			±0.8	ppm	
G-sensitivity		per axis		2.0		ppb/G	
Phase noise (typical value for 26 MHz)		10 Hz		-90		dBc/Hz	
		100 Hz		-115			
		1000 Hz		-137			
		10 KHz		-154			
		100 KHz		-156			
		1000 KHz		-157			
Environmental Conditions							
Operating temperature range	-40°C to +85°C						
Storage temperature range	-55°C to +105°C						
Reflow Profiles	≤ 260 °C over 10 sec. Max. as per IPC/JEDEC J-STD-020C						
Moisture sensitivity	Level 1 (unlimited)						