Features and Benefits

Frequency range: 6-45MHz Supply voltage: 1.8V/2.5V/3.3V Steady current: 1.5-2.5mA Max Output waveform: Clipped Sinewave

Frequency stability vs. operating temperature: ±2.5ppm

Aging: ±1.0ppm per year

Phase noise@1KHz: -135dBc/Hz Operating temperature: -30°C to +75°C

Size: 5.0x3.2x1.05{ {

Typical Applications

Indoor Positioning System

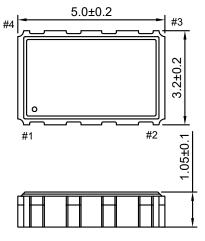
Description

TCXO5300AT offers wide temperature operation from -30°C to +75°C with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No:

MD220038-1



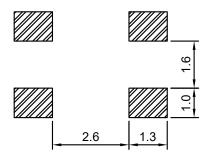
#1	

2.6

PIN	Function					
#1	TCXO: GND					
	VC-TCXO: Vcontrol					
#2	GND					
#3	Output					
#4	Vcc					

Unit in mm 1mm = 0.0394 inches

Soldering Pattern





Dynamic Engineers Inc."

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TCXO5300AT Pã @ | | ^& 4| À ÔÝUÁ

Specifications

Oscillator	Sym	Condition	Value			1164	Nere
Specification			Min.	Тур.	Max.	Unit	Note
Operational Frequency	F _{nom}		6		45	MHz	
RF Output							
Signal Waveform			Clipped sinewave				
Output Level			0.8			Vp-p	
Output Load			10Kohm//10pF				
Power Supply							
Supply Voltage	Vcc			1.8, 2.5, 3.	.3	V	
		6MHz-19.99MHz			1.5	mA	
Current Consumption		20MHz-31.99MHz			2.0	mA	
		32MHz-45.00MHz			2.5	mA	
Frequency Adjustment Range							
Absolute Pulling Range (APR)			±8			ppm	
Control Voltage	V _c		0.5	1.5	2.5	V	
Frequency Stability							
Frequency stability vs. temperature					±2.5	ppm	
Frequency stability vs. voltage change					±0.2	ppm	
Frequency stability vs. load change					±0.2	ppm	
Frequency Tolerance		at 25℃			±0.5	ppm	
Aging 1st Year					±1.0	ppm	
Phase Noise		1kHz		-135		dBc	
Environmental, Mechanical Conditions							
Operating temperature range	-30°C to +75°C						
Storage temperature range	-40°C to +	-85°C					