Features and Benefits

Frequency range: 10-52MHz Supply voltage: 1.8V/2.5V/3.3V Steady current: 1.5-2.0mA Max Output waveform: Clipped Sinewave

Frequency stability vs. operating temperature: ±2.0ppm

Aging: ±1.0ppm per year

Phase noise@1KHz: -135dBc/Hz Operating temperature: -30°C to +85°C

Size: 2.0x1.6x0.7mm

Typical Applications

Indoor Positioning System

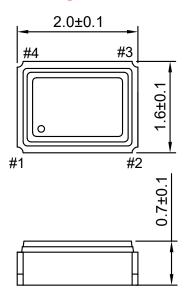
Description

TCXO2016AT offers wide temperature operation from -30°C to +85°C with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

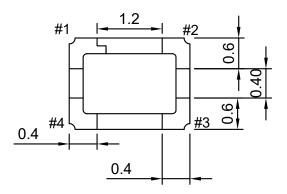
Drawing No:

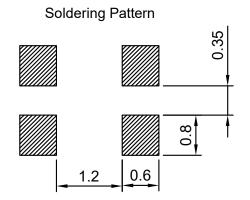
MD220042-1



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

Unit in mm 1mm = 0.0394 inches







Dynamic Engineers Inc."

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TCXO2016AT

High precision TCXO

Specifications

Oscillator	Sym	Condition	Value			11	Nere
Specification			Min.	Тур.	Max.	Unit	Note
Operational Frequency	F _{nom}		10		52	MHz	
RF Output							
Signal Waveform			Clipped sinewave				
Output Level			8.0			Vp-p	
Output Load			10Kohm//10pF				
Power Supply							
Supply Voltage	Vcc		1.8, 2.5, 3.3		V		
		10MHz-29.99MHz			1.5	mA	
Current Consumption		30MHz-39.99MHz			1.7	mA	
		40MHz-52.00MHz			2.0	mA	
Frequency Adjustment Range							
Absolute Pulling Range (APR)		Vcc=1.8V	±8		±13	ppm	
Absolute Fulling Runge (All TV)		Vcc=2.5V or 3.3V	±9		±15	ppm	
Control Voltage	V _c	Vcc=1.8V	0.1	0.9	1.7	V	
<u> </u>	- 0	Vcc=2.5V or 3.3V	0.5Vcc ± 1V		V		
Frequency Stability	1						
Frequency stability vs. temperature					±2.0	ppm	
Frequency stability vs. voltage change					±0.2	ppm	
Frequency stability vs. load change				1	±0.2	ppm	
Frequency Tolerance		at 25℃			±1.5	ppm	
Aging 1st Year					±1.0	ppm	
Phase Noise		1kHz		-135		dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range -30°C to +85°C						·	
Storage temperature range -40°C to +85°C							