#### **Features and Benefits**

Frequency range: 26-52MHz Supply voltage: 1.8V/2.5V/3.3V Steady current: 1.5-1.7mA 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: 1.65x1.25x0.6mm

## **Typical Applications**

Indoor Positioning System

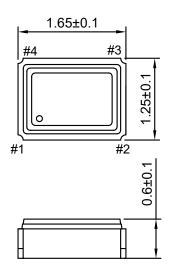
#### **Description**

TCXO1612AT offers wide temperature operation from -30°C to +85°C with outstanding frequency stability and low phase noise performance.

## **Mechanical Drawing & Pin Connections**

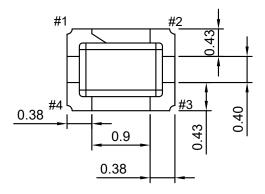
**Drawing No:** 

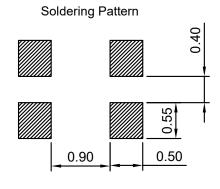
MD2200(\$-1



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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TCXO% %AT
High precision TCXO

# **Specifications**

Oscillator	Sym	Condition	Value			Unit	Note
Specification			Min.	Тур.	Max.	Unit	Note
Operational Frequency	F <sub>nom</sub>		26		52	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	
Current Consumption		26MHz-29.99MHz			1.5	mA	
Current Consumption		30MHz-52.00MHz			1.7	mA	
Frequency Adjustment Range							
Absolute Pulling Range (APR)		Vcc=1.8V	±8		±13	ppm	
Absolute Fulling Range (AFR)		Vcc=2.5V or 3.3V	±9		±15	ppm	
Control Voltage	V <sub>c</sub>	Vcc=1.8V	0.1		1.7	V	
· ·	v c	Vcc=2.5V or 3.3V		0.5Vcc ± 1V		V	
Frequency Stability							
Frequency stability vs. temperature					±2.0	ppm	
Frequency stability vs. voltage change					±0.2	ppm	
Frequency stability vs. load change					±0.2	ppm	
Frequency Tolerance		at 25℃			±1.5	ppm	
Aging 1 <sup>st</sup> Year					±1.0	ppm	
Phase Noise		1kHz		-135		dBc	
Environmental, Mechanical Conditions							
Operating temperature range	-30°C to +85°C						
Storage temperature range	Storage temperature range -40°C to +85°C						