

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

Features and Benefits

Surface mount package 4 pad 5x3.2x1.8mm Optional voltage control function RoHS Compliant Lead Free construction

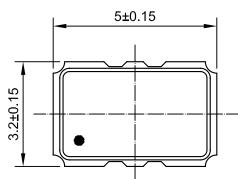
Typical Applications

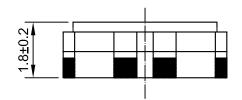
UHF Synthesizers SATCOM System Portable Microwave Applications

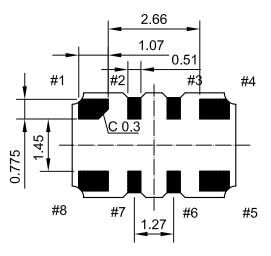
8Yg/lijdrjcb

TCXO5300AP_series offers wide temperature operation from -40°C to +85°C with outstanding frequency stability.

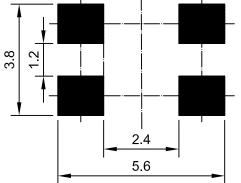
Mechanical Drawing & Pin Connections







Drawing No: MD150017-6 Land Pattern



Pin Function

TCXO5300AP_series

5x3.2x1.8mm SMD TCXO

#1	VC or NC
#4	GND
#5	Output
#8	Vdc

Do not connect:#2, #3, #6

Unit in mm 1mm=0.0394 inches

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Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and graphs without notification to potential customers who may have earlier revisions in their possession.

Rev.1

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Specifications

Oscillator Specification		Sym		Value				
			Condition	Min.	Тур.	Max	Unit	Note
Operational Frequency Range		Fnom		10		52	MHz	
Standard Frequency				10,16.384,19.2,20,25		MHz		
CMOS	Output Level			CMOS				
	Output Load				15		pF	
	Duty Cycle			40		60	%	
Clipped	Output Level				0.8Vp-p			
Sine	Output Load				10kohm//10pF			
Power Sup	oply							
Voltage		V _{cc}		2.7		5.5	V	
Current Consumption						8.5	mA	For CMOS output
						3.5	mA	For Clipped sine
Frequency	Control*							l
Control voltage range		Vc			1.5±1.0;1.65± 1.0;2.5±1.0		V	
Tuning range				±3			ppm	Tuning Slope Positive
Frequency	Stability							
Versus ±5% change in supply voltage						±0.3	ppm	
Versus ±10% change in load			Ref to frequency at nominal load			±0.3	ppm	
First Year A	Aging					±1.0	ppm	
Versus Reflow			1 reflow			±1.0	ppm	
Phase noise (typ.) @20MHz			1000 Hz			-135	dBc	
Environme	ental Conditions							
Storage ter	nperature range	-40°C to	o 85°C					

Frequency Stability vs. Temperature

	±0.05PPM	±0.1PPM	±0.2PPM	±0.5PPM	±1.0PPM	±2.0PPM
0°C to +50°C	Available	Available	Available	Available	Available	Available
-10°C to +60°C	Conditional	Available	Available	Available	Available	Available
-20°C to +70°C	Not Available	Conditional	Available	Available	Available	Available
-30°C to +75°C	Not Available	Conditional	Available	Available	Available	Available
-40°C to +85°C	Not Available	Conditional	Available	Available	Available	Available