TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com



Features and Benefits

Surface mount package 4 pad 7x5x1.85mm Optional voltage control function RoHS Compliant Lead Free construction

Typical Applications

UHF Synthesizers SATCOM System Portable Microwave Applications

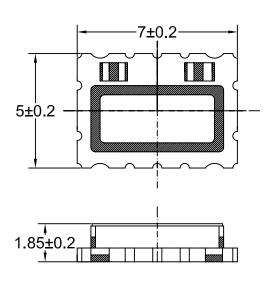
8YgVfJdfJdb

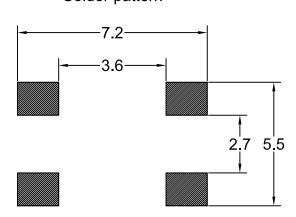
TCXO7500AP_series offers wide temperature operation from -40°C to +85°C with outstanding frequency stability.

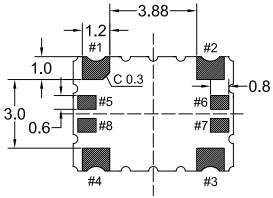
Mechanical Drawing & Pin Connections

Drawing No: MD180006-1

Solder pattern







Pin Function

#1 Vc or NC

#2 GND

#3 Output

#4 Supply Voltage

Do not connect #5, #6, #7, #8

Unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

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TCXO7500AP_series 7x5x1.85mm SMD TCXO

Specifications

Oscillator Specification		Sym	Condition	Value				
				Min.	Тур.	Max	Unit	Note
Operational Frequency Range		F _{nom}		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 Sine	Output Level				0.8Vp-p			
	Output Load				10kohm//10pF			
Power Sup	pply							
Voltage	• •	V_{cc}		2.7		5.5	V	
Current Consumption						8.5	mA	For CMOS output
						3.5	mA	For Clipped sine
Frequency	Control*							
Control voltage range		V _c			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 Aging						±1.0	ppm	
Versus Reflow			1 reflow			±1.0	ppm	
Phase noise (typ.) @20MHz			1000 Hz			-135	dBc	
	ental Conditions							
Storage ten	nperature range	-40°C t	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