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

TCXO5300AP-10MHz-A-V
5x3.2mm 10MHz SMD TCXO

Features and Benefits

10MHz Frequency
3.3V Supply voltage
Clipped sinewave Output waveform
±0.1ppm Stability Vs -40C --+85C
5x3.2mm Size
-135dBc/Hz @1KHz phase noise value

Typical Applications

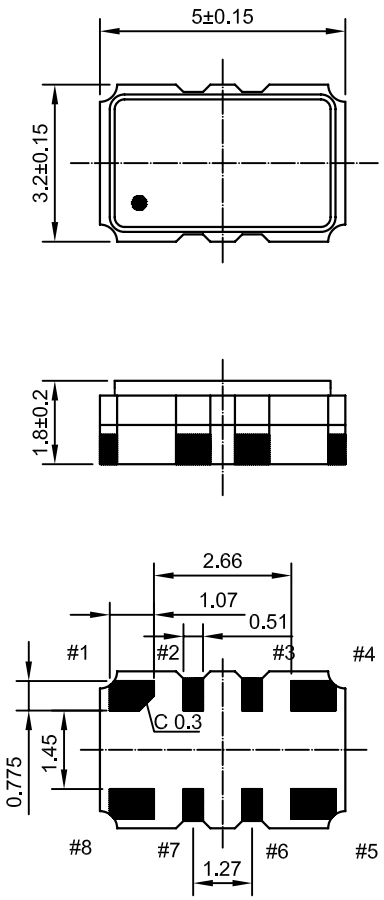
SATCOM System
Cellular Base Stations
Radar Applications

Description

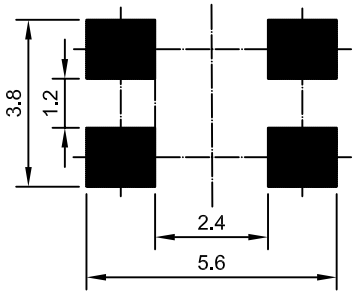
TCXO5300AP-10MHz-A-V are designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No: MD150017-6



Land Pattern



Pin Function

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

Do not connect:#2, #3, #6 &#7

Unit in mm
1mm=0.0394 inches

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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F_{nom}			10		MHz	
RF Output							
Signal Waveform				Clipped sinewave			DC Coupled
Load	R_L	±10%		10pf//10kohm			
Level Voltage			0.8Vp-p			V	
Power Supply							
Supply Voltage	V_S	±5%		3.3		V	
Current					3.5	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)		Vcon = +1.65V +/1.0V DC	±5		±10	ppm	positive
EFC voltage	V_c	±1.0V		1.65		V	
Frequency Stability							
Versus Operating Temperature Range		-40C --+85C		±0.1		ppm	Refer to +25℃
Frequency Tolerance		at +25℃ ±2℃ and Vcon = 1/2Vdd			±1.0	ppm	
Versus supply voltage	V_S	±5% change		±0.3		ppm	
Versus load		10 kΩ±10% with 10 pF ±10%		±0.3		ppm	
Aging 1st Year		+25℃ ±2℃			±1.0	ppm	
SSB Phase noise		1kHz		-135		dBc	
Environmental,Mechanical Conditions							
Operating temperature range	-40°C to +85°C						
Storage temperature range	-40°C to +85°C						
Power supply voltage	-0.6V to +4.6V (Absolute Maximum Ratings)						
Reflow soldering condition	+250℃ ±10℃ for 10 seconds; +170℃ ±10℃ for 1 to 2 minutes(pre-heating)						