



Features and Benefits

- 20MHz Frequency
- 3.3V Supply voltage
- Clipped sinewave Output waveform
- ±1.0ppm Stability Vs -40C --+85C
- 2x1.6mm Size
- 130dBc/Hz @1KHz phase noise value

Typical Applications

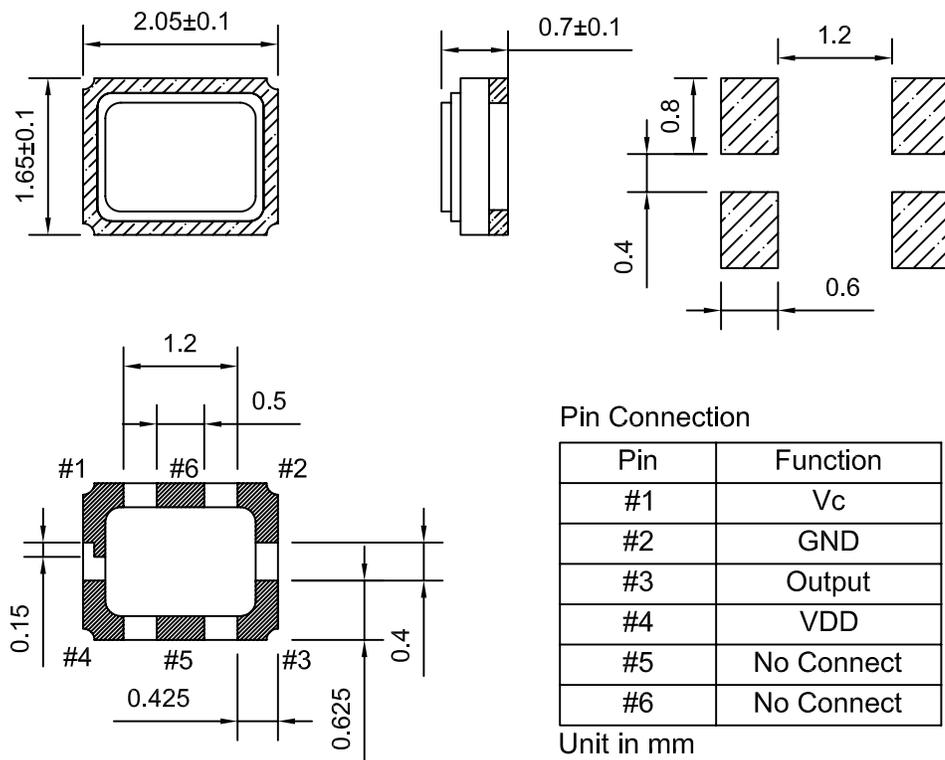
- SATCOM System
- Cellular Base Stations
- Radar Applications

Description

TCXO2016AO-20MHz-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: MD170034-2



Pin Connection

Pin	Function
#1	Vc
#2	GND
#3	Output
#4	VDD
#5	No Connect
#6	No Connect

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}			20		MHz	
RF Output							
Signal Waveform			Clipped sinewave				
Load	R _L		10pf//10kohm				
Level Voltage			0.8Vp-p			V	
Startup time		90% of final RF level in Vp-p			2	mS	
Power Supply							
Supply Voltage	V _s	±5%		3.3		V	
Current					1.5	mA	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)		1.4±1.0V	±3		±5	ppm	
EFC voltage	V _e	±1.0V		1.4		V	
Frequency Stability							
Versus Operating Temperature Range		-40C --+85C		±1.0		ppm	
Frequency Tolerance		Vcon=1.4V after reflow.	-2.0		+2.0	ppm	at 25°C
Versus supply voltage	V _s	±5% change		±0.2		ppm	
Versus load		±10% change		±0.2		ppm	
Aging 1 st Year				±1.0		ppm	
SSB Phase noise		1kHz			-130	dBc	
Environmental, Mechanical Conditions							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-40°C to +85°C					