



Features and Benefits

High frequency stability (up to ± 0.5 ppm over -40°C to $+85^{\circ}\text{C}$)
HCMOS Output
Through hole package

Typical Applications

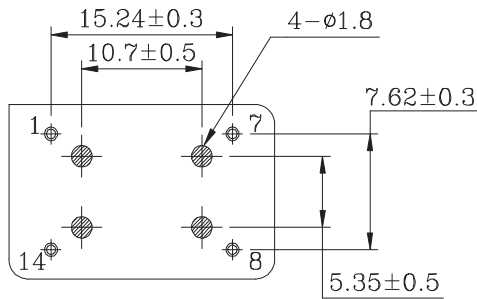
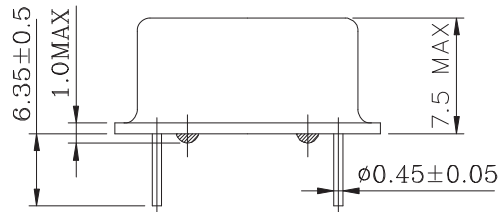
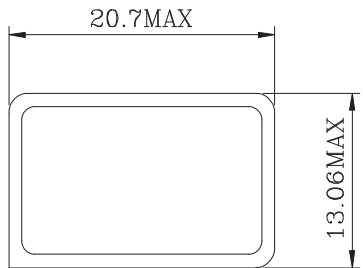
UHF Synthesizers
SATCOM System
Portable Microwave Applications

Description

TCXO2013K-38.4MHz-B-V offers wide temperature operation from -40°C to $+85^{\circ}\text{C}$ with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No: MD170045-2



Pin Connections

Pin	Symbol	Function
1	Vc	Control Voltage
7	GND	Ground
8	RF Out	RF Output
14	Vs	Supply Voltage

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}			38.4		MHz	
HCMOS	Duty Cycle		40		60	%	
	Output Load			15		pF	
Power Supply							
Voltage	V _{cc}	±5%		3.3		V	
Current Consumption					20	mA	
Frequency Control*							
Control voltage range	V _c		0.3		3	V	
Tuning range			5			ppm	
Frequency Stability							
Versus temperature		-40°C to +85°C		±0.5		ppm	
Tolerance at 25°C					±1	ppm	
Versus change in supply voltage		±5%			±0.1	ppm	
Versus change in load		±10%			±0.1	ppm	
First Year Aging					±1.0	ppm	
Phase Noise		1000 Hz		-135		dBc/Hz	
Environmental Conditions							
Operating temperature range		-40°C to 85°C					
Storage temperature range		-45°C to 90°C					