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

OCXO2020AM-38.4MHz-A-V
Extended Temperature OCXO

Features and Benefits

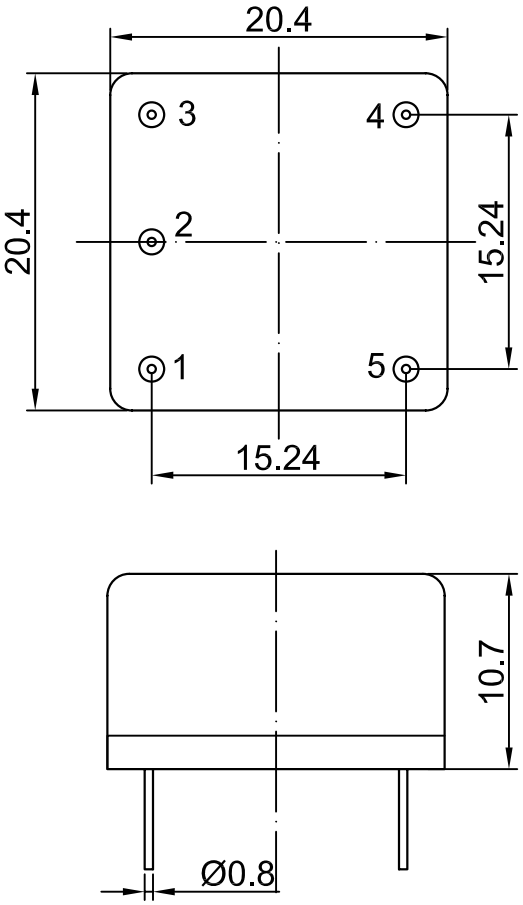
Sinewave output
High frequency stability(less than ±300ppb over -55°C to +75°C)
5.0V supply voltage

Typical Applications

Microwave communication systems
Portable and mobile devices
Instrument and clock reference

Mechanical Drawing & Pin Connections

Drawing No: MD140082-3



Pin Function

Pin	Function
1	Control Voltage
2	N.C. or Vref
3	GND
4	Output
5	Supply Voltage

Unti in mm
1mm = 0.0394 inches

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Specifications

Oscillator Specification		Sym	Condition	Value			Unit	Note
				Min.	Typ.	Max.		
Operational Frequency		f_0			38.4		MHz	
RF Output								
Sine-wave	Level	L		6	8	10	dBm	
	Load	R_L			50		Ohm	
	Harmonics Level					-30	dBc	
Power Supply								
Supply Voltage		V_{cc}		4.75	5.00	5.25	V	
Power Consumption			Warm-up			900	mA	
			Steady-state, +25°C			200		
Frequency Control								
Control Voltage Range		V_c		0	2.0	4.0	V	
Tuning Range				-1		+1	ppm	
Frequency Stability								
Vs. Temperature			ref 25°C From -55°C to +75°C		±300		ppb	
Vs. Supply Voltage			Ref V_{CC} typ.			±10	ppb	
Vs. Load Change						±10	ppb	
Aging	Per day		After 30 days of operation			±5.0	ppb	
	First Year					±300	ppb	
Phase Noise			10 Hz			-95	dBc/Hz	
			100 Hz			-120		
			1 KHz			-150		
			10 KHz			-155		
Environmental Conditions								
Operating temperature range			-55°C to +75°C					
Storage temperature range			-55°C to +100 °C					
Mechanical Shock			Per IEC 68-2-27 Test Ea, 30G, sinewave, 11ms, 3 axis					
Vibration			Per IEC 68-2-06 Test Fc, 10G, swept sine 10 to 2000Hz, amplitude 0.75mm, 30 minutes one cycle, 1hour for each axis.					
Drop			Free fall from 100cm height to concrete or steel surfaces					