



FEATURES

- ✓ Surface Mountable Design
- ✓ Very High Stability vs. Temperature
- ✓ Quick Warm-Up Time
- ✓ Low Age Rates
- ✓ Low Phase Noise
- ✓ 9.7x7.7mm Package

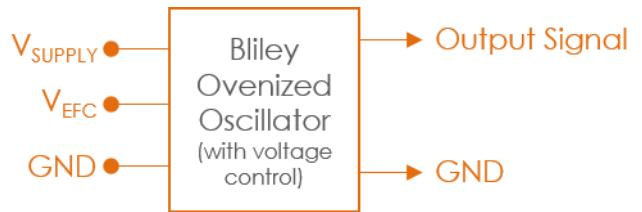
#blileytakesyoufurther

Oven Controlled Oscillator

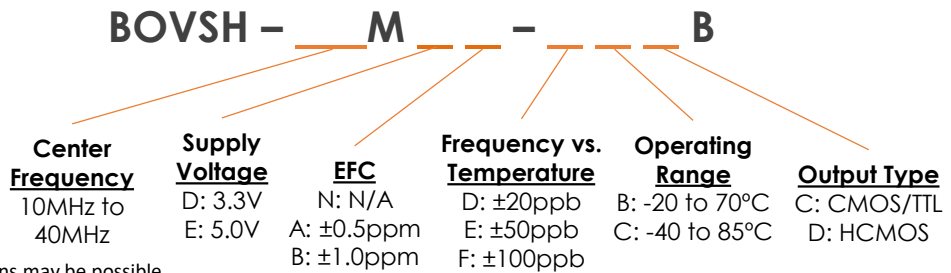
Description

Bliley high performance OXCO product offering is a result of 85 years in the Frequency Control Industry. Modern layout topologies enable Bliley to engineer and produce robust designs for all applications.

Block Diagram



Part Number Configuration



*Not all combinations of options may be possible
 **Other options may be available

Performance Specifications

Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
Frequency Range		10		40	MHz
Initial Tolerance	@ +25°C±1°C			±0.5	ppm
Warm Up Time	To initial tolerance			5	Min
Frequency Stability					
vs. Temperature	See Options (Max) Referenced to +25°C		±20, ±50, ±100		ppb
vs. Load	± 5% Δ in Load			±10	ppb
vs. Supply Voltage	± 5% Δ in supply			±10	ppb
ADEV (Short Term Stability)	T = 1 second		1E-10		
Aging					
After 30 Days Operation					
Per Day				±3.0	ppb
1 st Year				±1	Ppm
Supply Voltage (Vdd)	Option D	3.13	3.3	3.47	Vdc
	Option E	4.75	5	5.25	Vdc
Power Dissipation					
Start Up	@ +25°C			600	mA
Steady State	@ +25°C		180		mA
Electronic Frequency Control					
Voltage Range		0		Vdd	Vdc
Center Voltage			Vdd/2		Vdc
Frequency Range	See Options (Min)	±0.5, ±1			ppm
Slope			positive		
Input Impedance			100		kΩ
Linearity			10		%

Performance Specifications

Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
Output Characteristics					
High Output Level	Logic "1"	90% Vdd			Vdc
Low Output Level	Logic "0"	10% Vdd			Vdc
Rise/Fall Time		5			nSec
Duty Cycle		45	50	55	%
Load		15			pF

Parameter	Conditions	Values			Unit
		TYP			
Phase Noise					
Phase Noise (20 MHz)	Tested at +25°C	HCMOS			
	1Hz	-70			dBc/Hz
	10Hz	-100			dBc/Hz
	100Hz	-123			dBc/Hz
	1kHz	-143			dBc/Hz
	10kHz	-147			dBc/Hz
	100kHz	-151			dBc/Hz

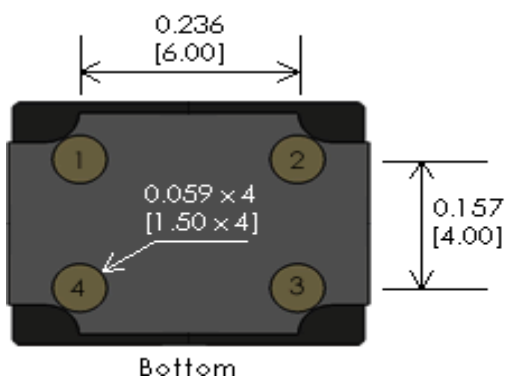
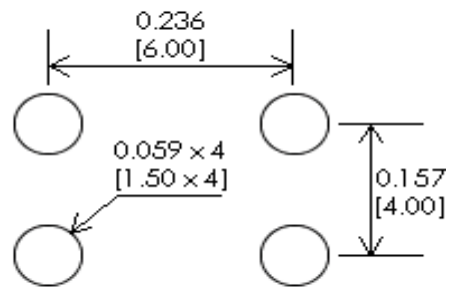
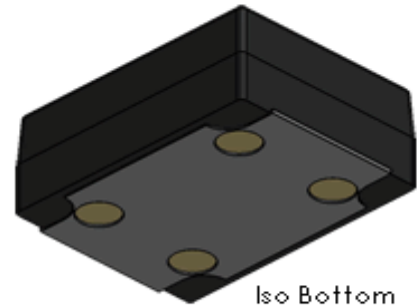
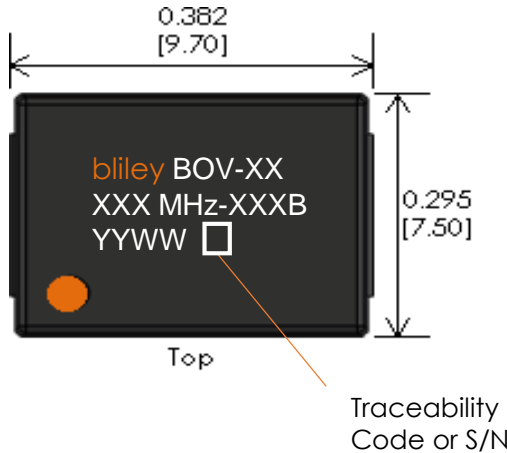
Note: Values typical of 10MHz units

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Environmental Compliance

Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
Operating Temperature	Option B	-20		+70	°C
	Option C	-40		+85	°C
Storage Temperature		-50		+95	°C
Vibration	MIL-STD 202, Method 201				
Shock	MIL-STD 202, Method 213, Test Method J				

Physical Specifications



PIN	FUNCTION
1	EFC/N.C.
2	Ground
3	RF Output
4	Supply Voltage

Tolerances (mm) .X = ± 0.5, .XX = ± 0.2 unless otherwise specified

Notes:
• None

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