

FEATURES

- ✓ 14x25mm Package Size
- ✓ MIL-STD-202 Compliant
- ✓ High Frequency Performance

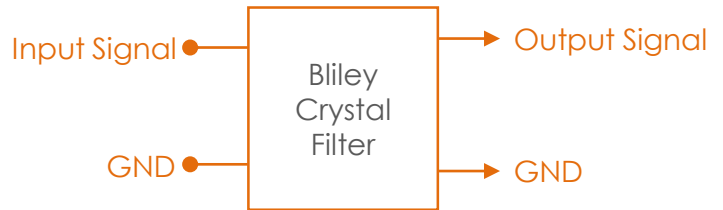
Monolithic Crystal Filter

#blileytakesyoufurther

Description

Bliley Crystal Filters are designed to perform reliably under demanding environmental conditions. Bliley rigorous Quality Control Standards provides the framework to provide consistent lot to lot product performance. Bliley Crystal Filters are utilized in applications consisting of: Avionics, Instrumentation, Military, SATCOM and DATACOM. Bliley can provide both discrete and monolithic topology solutions.

Block Diagram



Part Number Configuration

BXFMSM – M – AT

<u>Center Frequency</u>	<u>Bandwidth</u>	<u>Operating Temperature</u>	<u>Termination Impedance</u>
10 MHz to 120MHz	B: ±7.5kHz C: ±15kHz N: ±3.5kHz S: Special	A: 0°C to 70°C B: -20°C to 70°C C: -40°C to 85°C	A: 50Ω

*Not all combinations of options may be possible

**Other options may be available

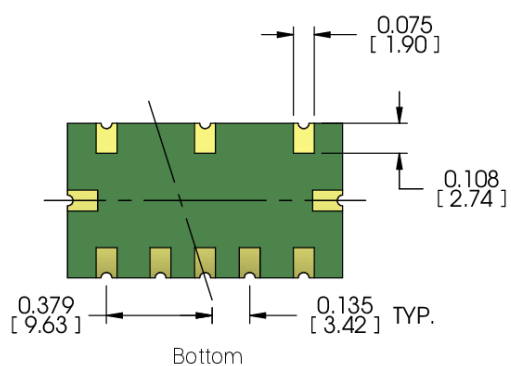
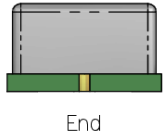
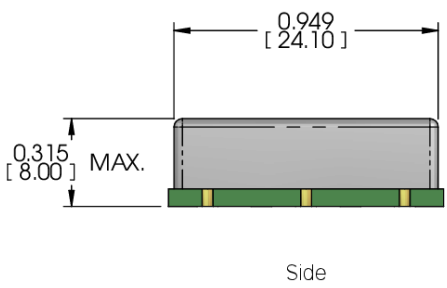
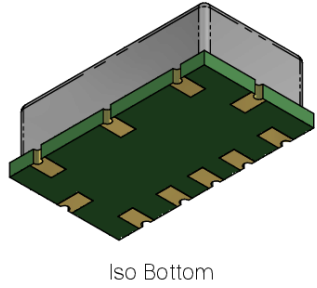
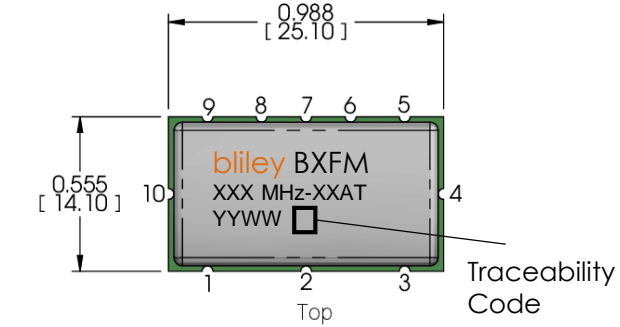
Performance Specifications

Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
General		MIN	TYP	MAX	
Frequency Range		10		120	MHz
Bandwidth	Option B @3.0 dB		±7.5		kHz
	Option C @3.0 dB		±15		kHz
	Option N @3.0 dB		±3.5		kHz
Stop Bandwidth			±30		kHz
Ripple	Fo ±bandwidth			1.0	dB
Ultimate Attenuation			35		dB
Insertion Loss	10MHz			2	dB
	120MHz			3	
Spurious	10MHz		50		dB
	120MHz	20			
Termination Impedance (Zt)	Zin = Zout	47.5	50	52.5	Ω
Input Power		0		6	dBm

Environmental Compliance

Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
Operating Temperature	Option A	0		+70	°C
	Option B	-20		+70	°C
	Option C	-40		+85	°C
Storage Temperature		-55		+125	°C
Shock	MIL-STD-202 Method 202C				
Vibration	MIL-STD-202 Method 201A				
Seal	MIL-STD-202 Method 112 Test Condition D				

Physical Specifications



PIN	FUNCTION
1	Input/Output
2 & 4-10	Ground
3	Input/Output

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

Notes
SMT PCB Flatness = 0.005" {0.13mm} Max

DISCLAIMER: Bliley Technologies, Inc. reserves the right to make changes to the product(s) and or information contained herein without notice. No liability is assumed as a result of their use or application. No intellectual property rights accompany the sale or delivery of any such product(s) or information.