

FEATURES

- ✓ Extended operating range (-40° to 85°C)
- ✓ SMD Construction
- ✓ Standard 5x7mm Package
- ✓ ROHS Compliant

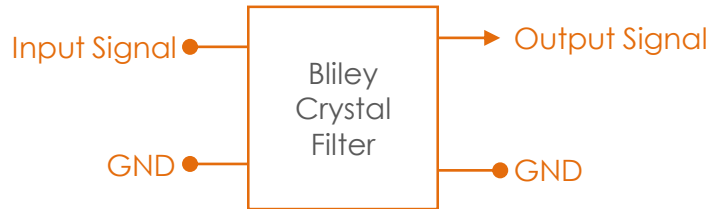
Monolithic Crystal Filter

#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

BXFMSA – 137M – SCCT

Center Frequency 137MHz	Bandwidth S: Special ±10kHz @ 1dB	Operating Temperature C: -40°C to +85°C	Termination Impedance C: Natural Impedance
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Performance Specifications

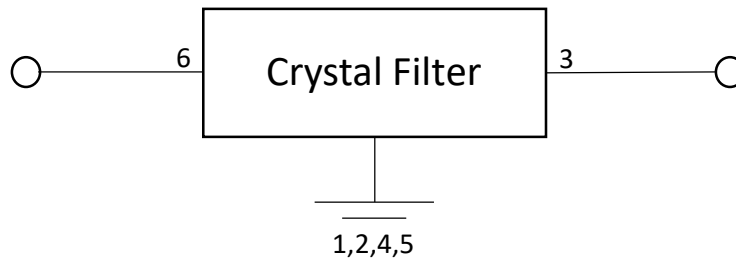
Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
General		MIN	TYP	MAX	
Center Frequency			137		MHz
Bandwidth	@1dB	±10			kHz
Amplitude Ripple	In passband			1.0	dB p-p
Insertion Loss	In passband			4.0	dB
Attenuation	fc-105kHz to fc-45kHz	10			dB
Attenuation	fc+45kHz to fc+105kHz	10			dB
Attenuation	Fc+273MHz to fc333MHz	20			dB
Max Input Power			0	10	dBm
Natural Impedance	Input/Output	1400Ω// -0.3pF			

Environmental Compliance

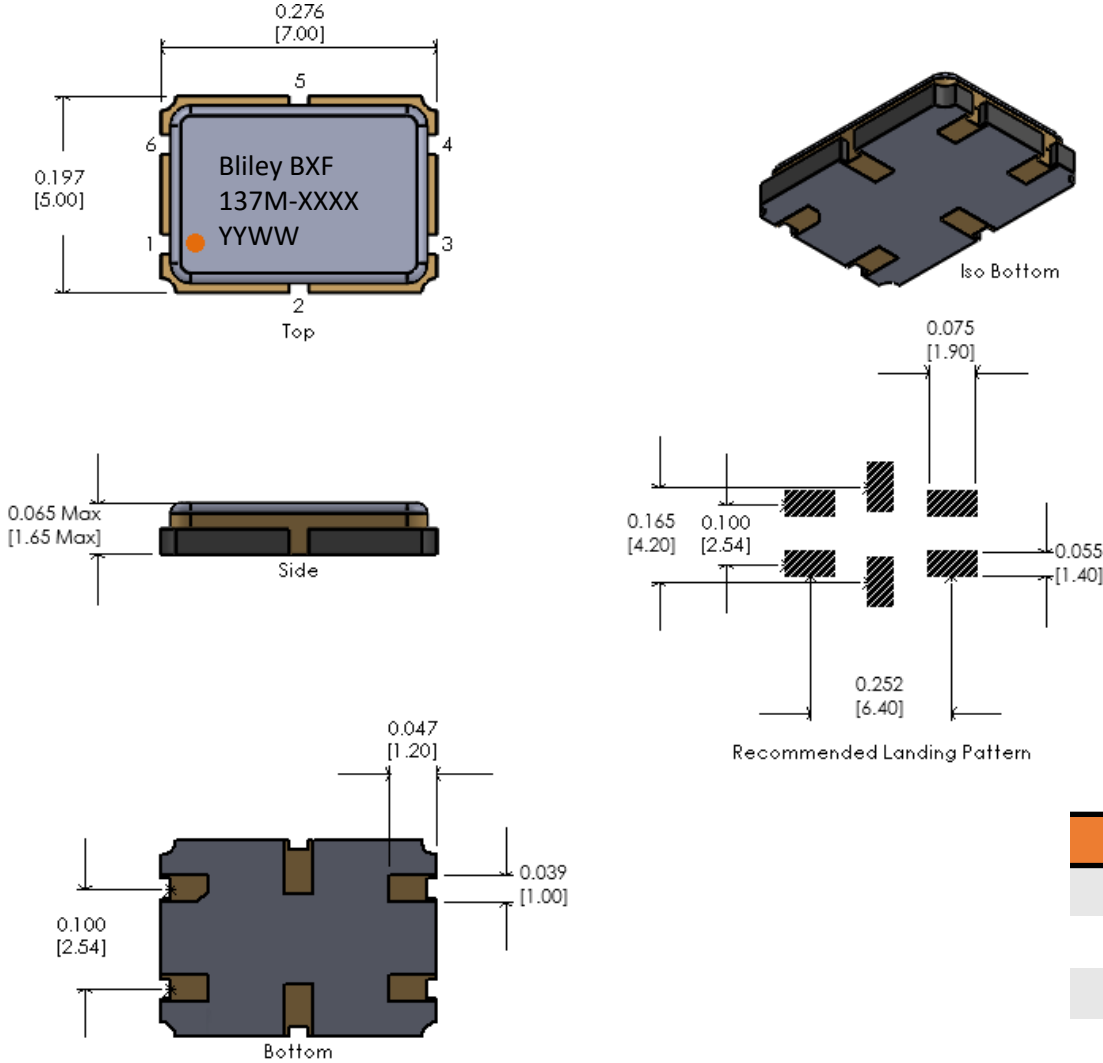
Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
Operating Temp Range		-40		+85	°C
Storage Temp Range		-40		+85	°C

Measurement Circuit

Network Analyzer



Physical Specifications



Pin Connections	
1	Ground
2	Ground
3	Output
4	Ground
5	Ground
6	Input

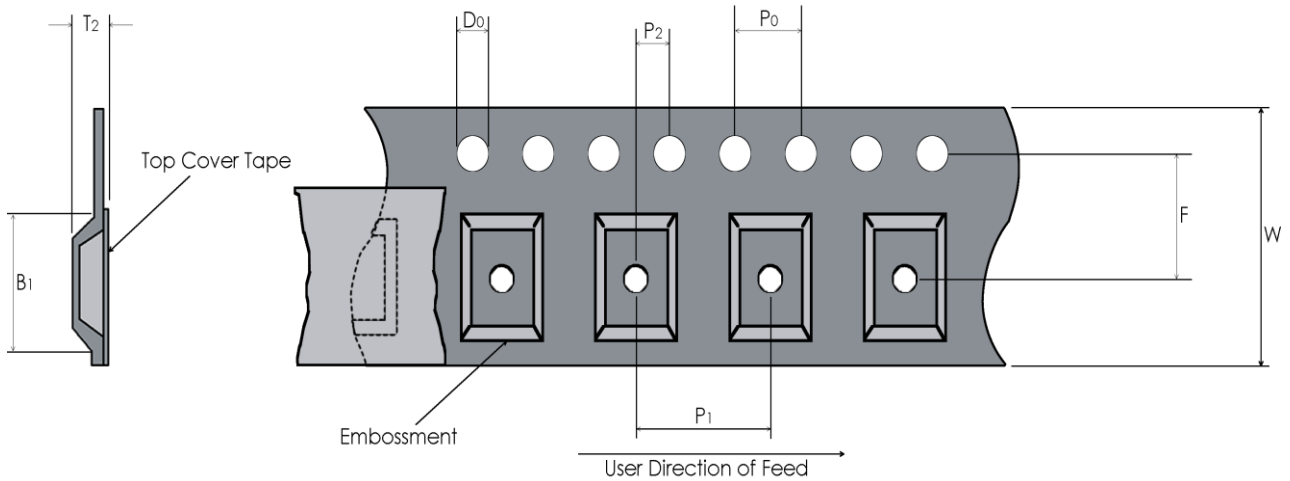
Tolerances (mm) .X = ± 0.5, .XX = ± 0.2 unless otherwise specified

Notes:

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Tape and Reel

Embossed Carrier Dimensions (8mm, 12mm, 16mm, 24mm Tape Only)



Tape Dimensions (mm)				Reel Dimensions (mm)					
W	F	Do	Po	P1	P2	B1	T2	Outside Dia.	Parts / Reel
16	7.5	1.5	4	8	2	7.3	1.8	180	1000

Recommended Reflow Profile

Reflow Profile: in accordance to IPC/JEDEC J-STD-020 (Latest Revision)

Additional Notes:

- This part has been designed for pick and place reflow soldering
- This part may be reflowed once
- This part should not be reflowed in the inverted position

Packaging

Packaging: All packaging must conform to ESD Controls detailed in ANSI/ESD S20.20 (Latest Revision)