BXFMSA-70M-MCCT – Crystal Filter

FEATURES

- ✓ Extended operating range (-40° to 85°C)
- ✓ SMD Construction
- ✓ 7.0x5mm Package

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 – 70M – M C C T

Center Frequency	Bandwidth	Operating Temperature	Termination Impedance
70MHz	M: ±5kHz	C: -40°C to +85°C	C: Natural

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Performance Specifications

Parameter	Conditions	Values			Unit
General		MIN	TYP	MAX	
Center Frequency	Fundamental		70		MHz
Bandwidth	@1dB	±3.5			kHz
	@3dB	±5			kHz
	@35dB			±20	kHz
Amplitude Ripple	In passband			2.0	dB
Insertion Loss	In passband			6.0	dB
Stop Band	70.4 - 71 MHz	40			dB
	69.1MHz	70			dB
Max Input Level	Operating	-10	0		dBm
Termination Impedance	Zin = Zout		380		Ω
			5.0		pF
Moisture	1				

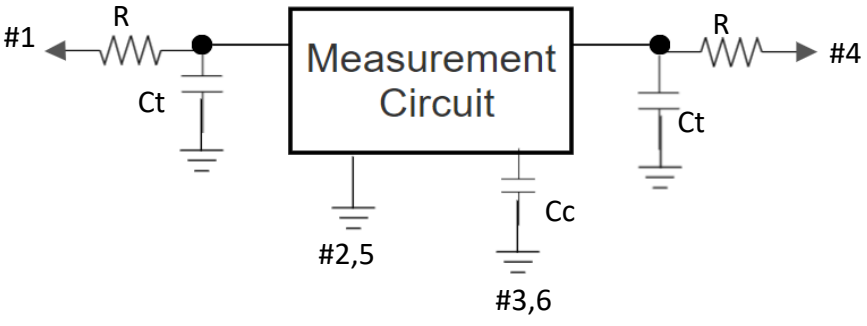
Environmental Compliance

Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
Operating Temp Range		-40		+85	°C
Storage Temp Range		-40		+85	°C
Shock	MIL-STD-202, Method 213 Test Condition A				
Solderability	MIL-STD-202, Method 208				

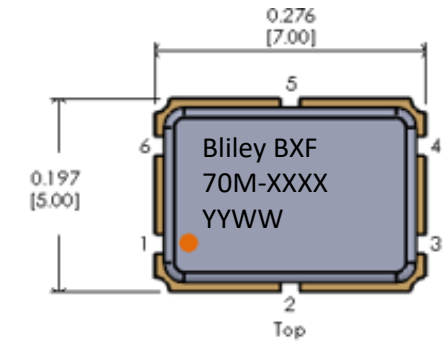
Measurement Circuit

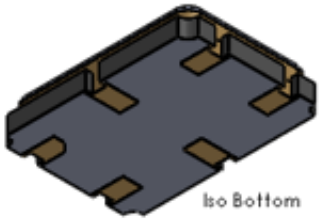
Network Analyzer
50Ω

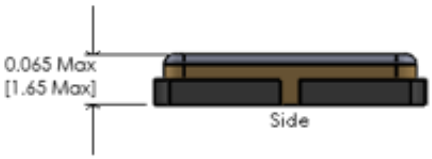
R= 330Ω
Ct= 5pF
Cc= 11pF

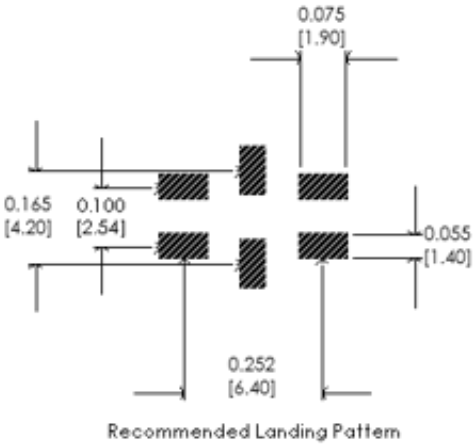


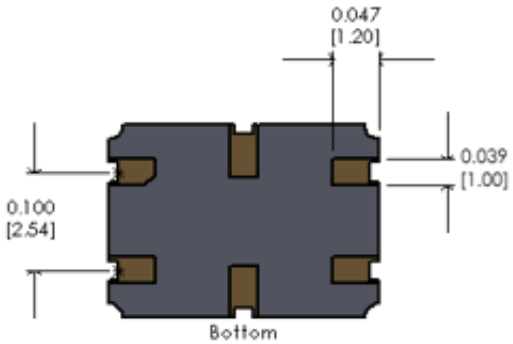
Physical Specifications











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

RoHS COMPLIANT

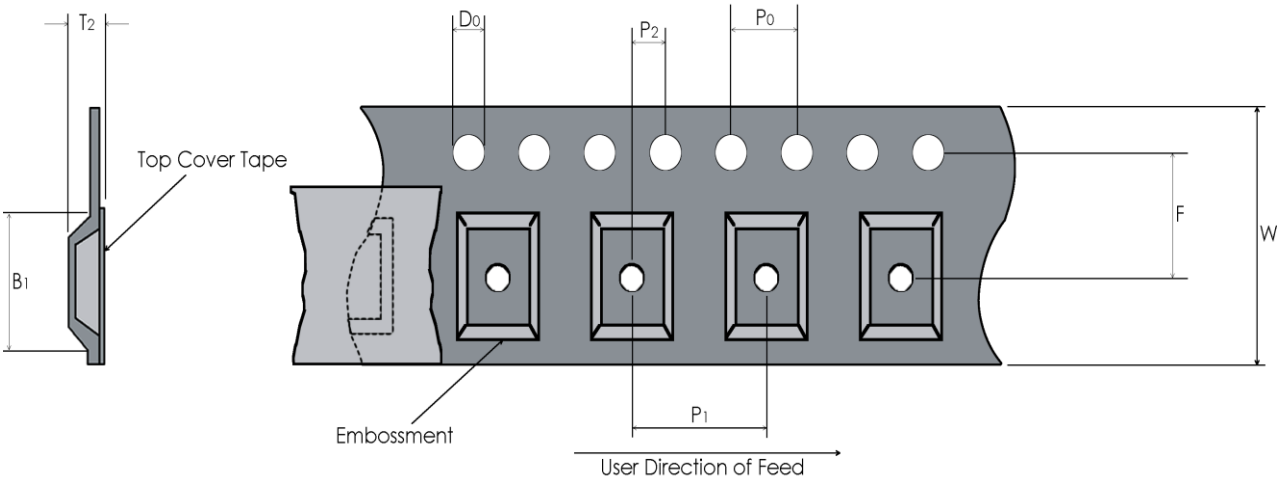
AS9100:2016
ISO 9001:2015
CERTIFIED

REACH COMPLIANCE

Notes:

Tape and Reel

Embosed 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)