BSFSD-2665M-FBAT – SAW Filter

bliley technologies

FEATURES

- ✓ Extended Operating Range (-20 to 70°C)
- ✓ SMD Consturction
- ✓ Standard 3x3mm Package
- ✓ RoHS Compliant

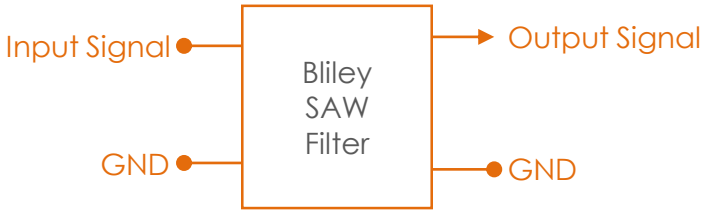
Surface Acoustic Wave Filter

#blileytakesyoufurther

Description

Bliley Surface Acoustic Wave (SAW) filters use Inter-Digital Transducers (IDTs) which enable highly miniaturized filters that can be used for Radio Frequency (RF) signal processing. Bliley rigorous Quality Control Standards provides the framework to provide consistent lot to lot product performance. Bliley SAW Filters are utilized in applications consisting of: Avionics, Instrumentation, Military, SATCOM and DATACOM.

Block Diagram



Part Number Configuration

BSFSD – 2665 M – F B A T

Center Frequency	Bandwidth	Operating Temperature	Termination Impedance
2665MHz	F: ±55MHz	B: -20°C to +70°C	A: 50Ω

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Performance Specifications

Parameter	Conditions	Values			Unit
General		MIN	TYP	MAX	
Center Frequency			2665		MHz
Bandwidth	@-3dB	±55	±62		MHz
	@-20dB	±75	±83		MHz
Amplitude Ripple	In passband		0.8	2	dB
Insertion Loss	In passband		2.3	3.6	dB
Group Delay Variation	In Passband @ 25°C		5	12	nSec
Attenuation	Reference Level from 0 dB: 10-2100 MHz	25	31		dB
	Reference Level from 0 dB: 2100-2515 MHz	27	34		dB
	Reference Level from 0 dB: 2770-4000 MHz	30	37		dB
	Reference Level from 0 dB: 4000-5000 MHz	15	22		dB
VSWR	2624-2690MHz		1.9	2.5	
Termination Impedance (Source and Load)	Zin = Zout	47.5	50	52.5	Ω
Input Power			10	15	dBm

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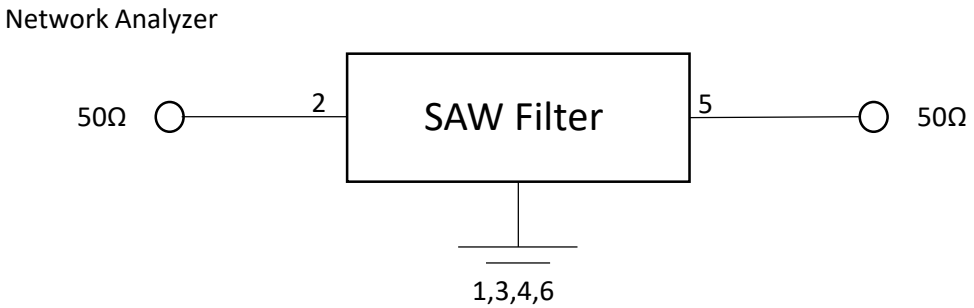
Environmental Compliance

Parameter	Conditions	Values			Unit
		MIN	TYP	MAX	
Operating Temp Range		-20		+70	°C
Storage Temp Range		-40		+85	°C
Shock	MIL-STD-202 Method 213 Test Condition A				
Vibration	MIL-STD-202 Method 214 Test Condition 1C				
Thermal Shock	MILD-STD-202 Method 107 Test Condition A-1				
Altitude	Mean Sea Level			50,000	ft
Moisture Resistance	MIL-STD-202 Method 106 Test Condition C	90%		98%	RH

Measurement Circuit



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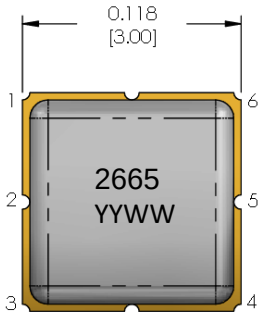
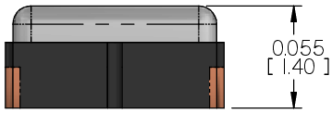
Physical Specifications

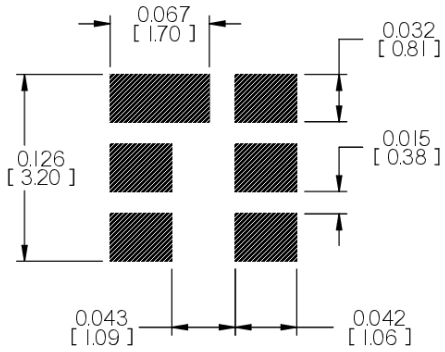


Top

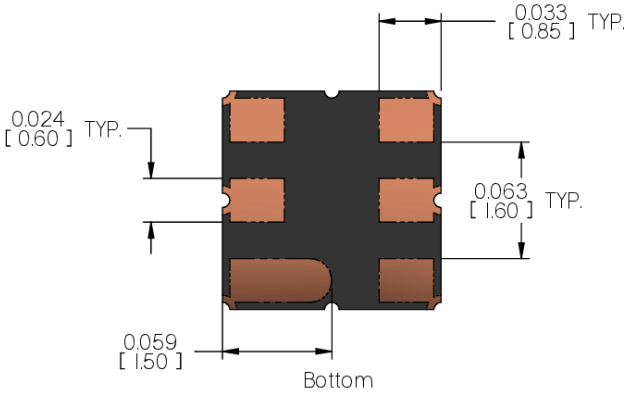
Iso Bottom



Side



Recommended Landing Pattern



Bottom

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

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

Notes:

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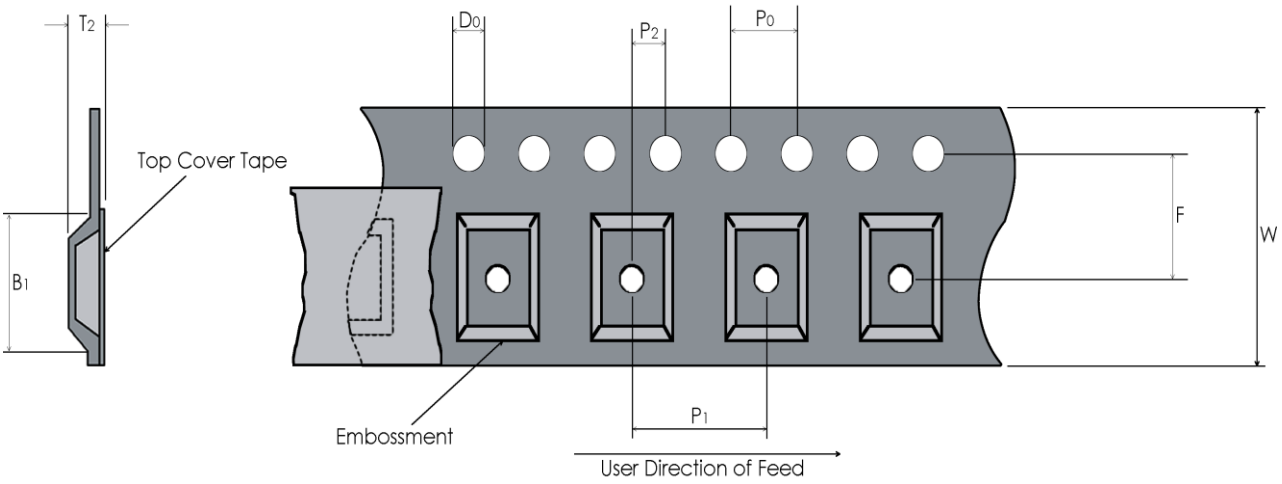
Tape and Reel

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
12	5.5	1.5	4	8	2	3.3	1.4	330	5000

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)

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