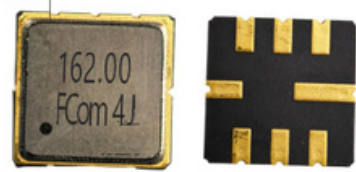


FCom SAW FILTER

Series FSF-5050-162M

8-pad SMD package, 5.0 x 5.0 mm



Features

- Package: 5.0 x 5.0 mm, H 1.5 mm max.
- 3 dB bandwidth: 8.0 MHz typical
- Operating temperature: -40 to +85 °C
- RoHS and REACH compliant, lead-free

Applications

- 162 MHz receiver front-end and intermediate-frequency filtering
- VHF receiver and monitoring equipment using a 162 MHz filtering stage
- Telemetry and industrial wireless receiver modules
- RF front-end modules and LNA-plus-filter assemblies

ELECTRICAL SPECIFICATIONS

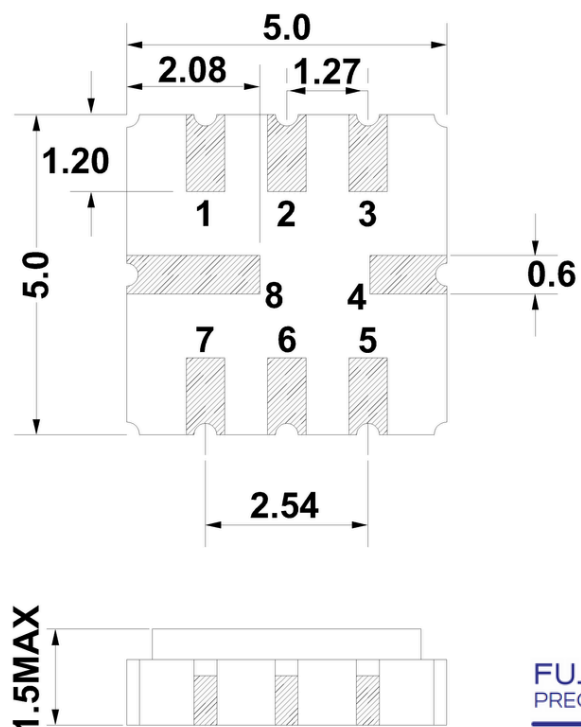
Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	f _c	162.00			MHz	At 25 °C IL at f _c Ripple 159 to 165 MHz Single-ended 50 ohm source and load
Insertion Loss	IL		1.6	2.8	dB	
3dB Bandwidth	BW3	6	8		MHz	
Amplitude Ripple over f _c ±3.0MHz	△a		2.2	4.7	dBp-p	
Operating Temperature Range	T _A	-40		+85	°C	
Source Impedance	50 ohm					
Load Impedance	50 ohm					

- ! Electrical characteristics apply under the specified test and matching conditions.
- Please contact FCom for matching requirements and application support.

DIMENSION(mm)

Pin No.	Description
2	Input/Output
6	Input/Output
1, 3, 5, 7	Ground
4, 8	Case Ground

Please contact FCom for other pin configurations.



FUJI CRYSTAL
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FCom SAW FILTER

Series FSF-5050-163M

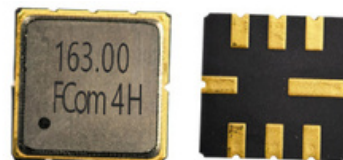
8-pad SMD package, 5.0 x 5.0 mm

Features

- Package: 5.0 x 5.0 mm, H 1.5 mm max.
- Specified passband: 159 to 167 MHz
- Operating temperature: -10 to +50 °C
- RoHS and REACH compliant, lead-free

Applications

- 163 MHz receiver RF and intermediate-frequency filtering
- Industrial wireless receiver and telemetry modules
- Receiver signal conditioning over the specified passband
- Wireless data-acquisition and remote-monitoring receivers



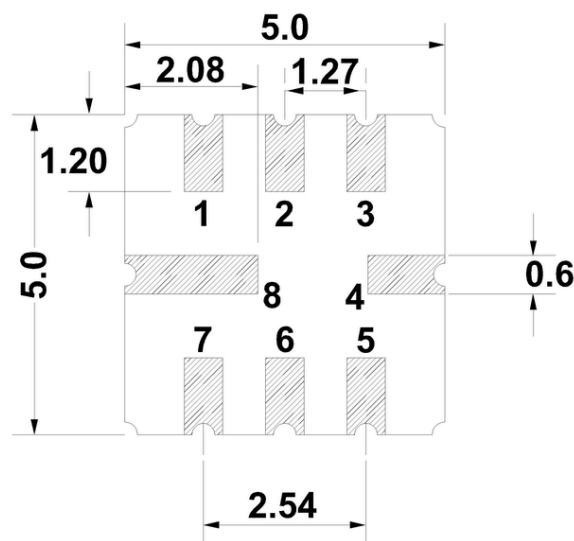
ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	f _c	163.0			MHz	IL and ripple fc ±4 MHz 159 to 167 MHz 50 ohm source and load Matching required
Insertion Loss	IL		6.0	6.5	dB	
Specified Passband	f	159		167	MHz	
Amplitude Ripple over fc±4.0MHz	△a		1.3	2.1	dBp-p	
Operating Temperature Range	T _A	-10		+50	°C	
Source Impedance	50 ohm					
Load Impedance	50 ohm					

! Electrical characteristics apply under the specified test and matching conditions.

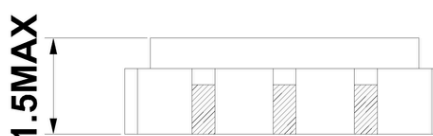
- Please contact FCom for matching requirements and application support.

DIMENSION(mm)



Pin No.	Description
2	Input/Output
6	Input/Output
1, 3, 5, 7	Ground
4, 8	Case Ground

Please contact FCom for other pin configurations.



FUJI CRYSTAL
PRECISELY ACCURATE

FCom SAW FILTER

Series FSF-5050-169M

8-pad SMD package, 5.0 x 5.0 mm

Features

- Package: 5.0 x 5.0 mm, H 1.5 mm max.
- 3 dB bandwidth: 8.8 MHz typical
- Operating temperature: -10 to +70 °C
- RoHS and REACH compliant, lead-free

Applications

- 169 MHz receiver preselection and front-end filtering
- Meter-reading receiver modules using a 169 MHz filtering stage
- Telemetry receiver RF and intermediate-frequency filtering
- Remote-monitoring and wireless data-acquisition receiver modules



ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	f _c	169.00			MHz	Minimum IL Attenuation 119 to 139 MHz relative to ILmin 50 ohm source and load
Insertion Loss	IL		1.5	2.8	dB	
3dB Bandwidth	BW3	6.0	8.8		MHz	
Stopband Attenuation	A	42	54		dB	
Operating Temperature Range	T _A	-10		+70	°C	
Source Impedance	50 ohm					
Load Impedance	50 ohm					

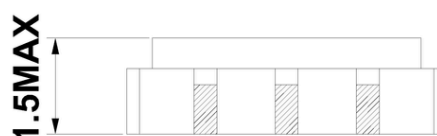
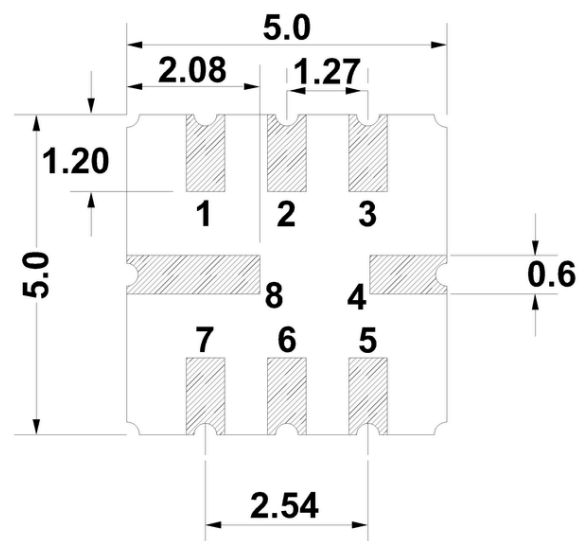
! Electrical characteristics apply under the specified test and matching conditions.

- Please contact FCom for matching requirements and application support.

DIMENSION(mm)

Pin No.	Description
2	Input/Output
6	Input/Output
1, 3, 5, 7	Ground
4, 8	Case Ground

Please contact FCom for other pin configurations.



FUJI CRYSTAL
PRECISELY ACCURATE

FCom SAW FILTER

Series FSF-5050-169M4

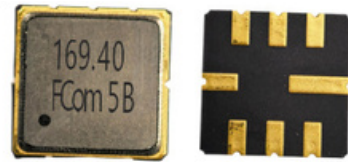
8-pad SMD package, 5.0 x 5.0 mm

Features

- Package: 5.0 x 5.0 mm, H 1.5 mm max.
- 3 dB bandwidth: 500 kHz typical
- Operating temperature: -40 to +85 °C
- RoHS and REACH compliant, lead-free

Applications

- 169.4 MHz RF bandpass filtering for metering receivers
- Wireless gas, water and heat meter receiver front ends
- Telemetry receiver filtering around 169.4 MHz

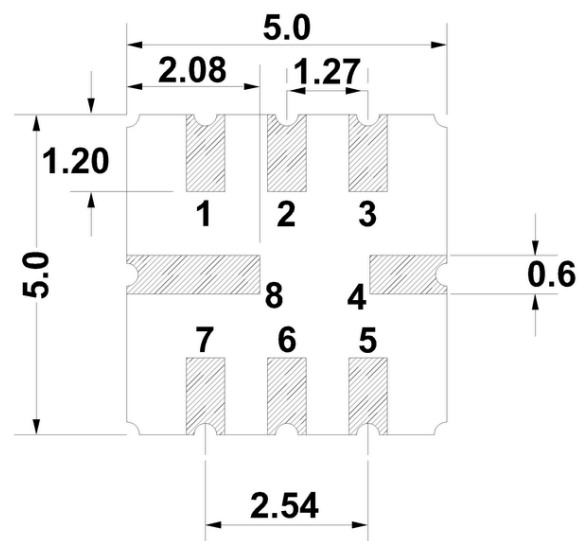


ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	f_c		169.40		MHz	IL includes matching loss Passband loss 169.3 to 169.5 MHz relative to ILmin 50 ohm source and load Matching required
Insertion Loss	IL		2.0	3.0	dB	
3dB Bandwidth	BW3		500		kHz	
Passband Loss			0.4	3.0	dB	
Operating Temperature Range	T_A	-40		+85	°C	
Source Impedance		50 ohm				
Load Impedance		50 ohm				

- ! Electrical characteristics apply under the specified test and matching conditions.
- Please contact FCom for matching requirements and application support.

DIMENSION(mm)



Pin No.	Description
2	Input/Output
6	Input/Output
1, 3, 5, 7	Ground
4, 8	Case Ground

Please contact FCom for other pin configurations.



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