

FCom SAW FILTER

Series FSF-5050-862M5

8-SMD, No Lead 5.0x5.0 mm



Feature

- Package footprint: 5.0 x 5.0 mm
- 3 dB bandwidth: 1.70 MHz typical
- Operating temperature range: -45°C to +90°C
- RoHS and REACH Compliant , Pb-free

Application

- 862.5 MHz narrowband RF BPF
- Narrowband UHF signal selection
- Receiver preselector
- Test & measurement filtering

TEST CONDITIONS AND MATCHING

50-ohm source / load. Each port: series 12 nH; shunt 5 pF on the 50-ohm side.

Reference temperature: Not specified. Device impedance is specified at the center frequency.

Parameter reference: TA0694A Rev.2.0.

ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	fC	-	862.5	-	MHz	ILmin interval: 862.25-862.75 MHz BW3 is relative to ILmin. Amplitude ripple: Not separately specified. // = parallel R-C
Minimum Insertion Loss	ILmin	-	3.2	4.5	dB	
3 dB Bandwidth	BW3	1.00	1.70	-	MHz	
Amplitude Ripple	-	-	-	-	dB	
Storage Temperature	Tstg	-45	-	+90	°C	
Input Impedance at fC	113 ohms // 3.7 pF					
Output Impedance at fC	113 ohms // 3.7 pF					

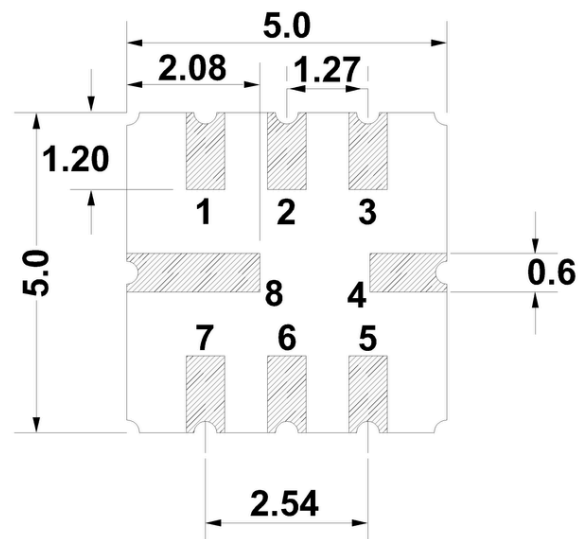
⚠ Typical values are provided for design guidance only. Final production specifications and tolerances are defined in the official test limits and shipment CoC.

DIMENSION(mm)

FCom mechanical template retained.
 Reference height: 1.7 mm max; template: 1.5 mm max.
 Confirm package dimensions before PCB layout.
 Pin table follows the reference outline.
 Its test circuit instead labels pin 2 as input;
 confirm the input pin before PCB layout.

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

Please contact FCom for other pin configurations.



FUJI CRYSTAL
PRECISELY ACCURATE

FCom SAW FILTER

Series FSF-5050-868M3

8-SMD, No Lead 5.0x5.0 mm



Feature

- Package footprint: 5.0 x 5.0 mm
- 3 dB bandwidth: 1.50 MHz typical
- Operating temperature range: -45°C to +90°C
- RoHS and REACH Compliant , Pb-free

Application

- 868.3 MHz narrowband RF BPF
- Narrowband UHF signal selection
- Receiver preselector
- Test & measurement filtering

TEST CONDITIONS AND MATCHING

50-ohm source / load. Each port: series 15 nH; shunt 3.3 pF on the 50-ohm side.

Reference temperature: 25°C. Device impedance is specified at the center frequency.

Parameter reference: TA0280A Rev.4.0. Reference response includes matching-circuit loss.

ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	fC	-	868.3	-	MHz	ILmin interval: 868.00-868.78 MHz BW3 is relative to ILmin. Amplitude ripple: Not separately specified. // = parallel R-C
Minimum Insertion Loss	ILmin	-	2.7	4.2	dB	
3 dB Bandwidth	BW3	-	1.50	-	MHz	
Amplitude Ripple	-	-	-	-	dB	
Storage Temperature	Tstg	-45	-	+90	°C	
Input Impedance at fC	117 ohms // 3.7 pF					
Output Impedance at fC	117 ohms // 3.7 pF					

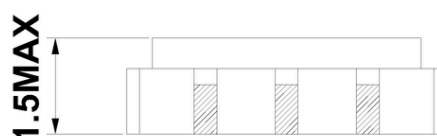
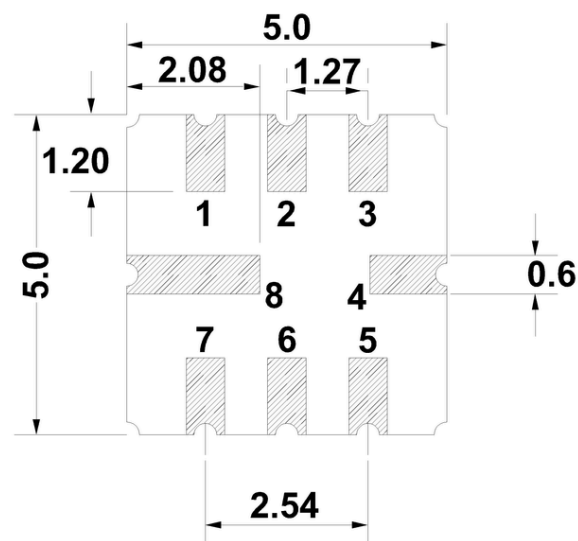
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DIMENSION(mm)

FCom mechanical template retained.
Reference height: 1.7 mm max; template: 1.5 mm max.
Confirm package dimensions before PCB layout.
Input pin 1 follows the reference test circuit.
Outline also allows pin 2 as input, with pin 1 grounded.

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

Please contact FCom for other pin configurations.



FUJI CRYSTAL
PRECISELY ACCURATE

FCom SAW FILTER

Series FSF-5050-868M69

8-SMD, No Lead 5.0x5.0 mm



Feature

- Package footprint: 5.0 x 5.0 mm
- 3 dB bandwidth: 1.90 MHz typical
- Operating temperature range: -45°C to +90°C
- RoHS and REACH Compliant , Pb-free

Application

- 868.69 MHz narrowband RF BPF
- Narrowband UHF signal selection
- Receiver preselector
- Test & measurement filtering

TEST CONDITIONS AND MATCHING

50-ohm source / load. Each port: series 12 nH; shunt 5 pF on the 50-ohm side.

Reference temperature: 25°C. Device impedance is specified at the center frequency.

Parameter reference: TA0336A Rev.2.0. Center frequency follows the electrical table (868.69 MHz).

ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	fC	-	868.69	-	MHz	ILmin interval: 868.00-869.38 MHz BW3 is relative to ILmin. Amplitude ripple: Not separately specified. // = parallel R-C
Minimum Insertion Loss	ILmin	-	3.3	4.7	dB	
3 dB Bandwidth	BW3	-	1.90	-	MHz	
Amplitude Ripple	-	-	-	-	dB	
Storage Temperature	Tstg	-45	-	+90	°C	
Input Impedance at fC	117 ohms // 3.7 pF					
Output Impedance at fC	117 ohms // 3.7 pF					

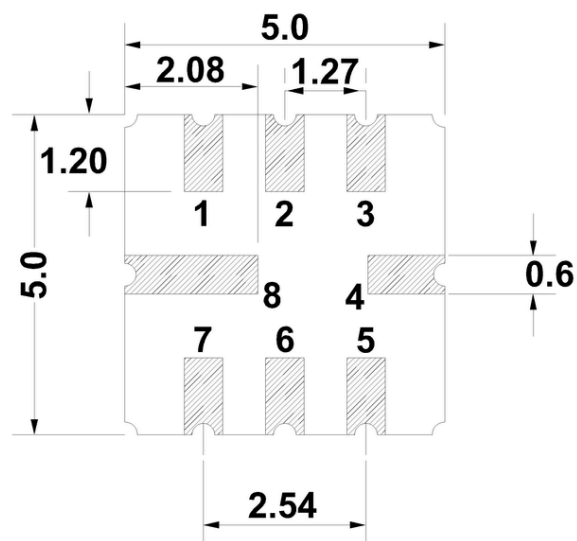
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DIMENSION(mm)

FCom mechanical template retained.
 Reference height: 1.7 mm max; template: 1.5 mm max.
 Confirm package dimensions before PCB layout.
 Pin functions follow the reference outline.

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

Please contact FCom for other pin configurations.



FUJI CRYSTAL
PRECISELY ACCURATE

FCom SAW FILTER

Series FSF-5050-868M95

8-SMD, No Lead 5.0x5.0 mm



Feature

- Package footprint: 5.0 x 5.0 mm
- 3 dB bandwidth: 1.85 MHz typical
- Operating temperature range: -45°C to +90°C
- RoHS and REACH Compliant , Pb-free

Application

- 868.95 MHz narrowband RF BPF
- Narrowband UHF signal selection
- Receiver preselector
- Test & measurement filtering

TEST CONDITIONS AND MATCHING

50-ohm source / load. Each port: series 12 nH; shunt 5 pF on the 50-ohm side.

Reference temperature: -45°C to +90°C. Device impedance is specified at the center frequency.

Parameter reference: TA0274A Rev.2.0.

ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	fC	-	868.95	-	MHz	ILmin interval: 868.7-869.2 MHz BW3 is relative to ILmin. Amplitude ripple: Not separately specified. // = parallel R-C
Minimum Insertion Loss	ILmin	-	3.0	4.7	dB	
3 dB Bandwidth	BW3	-	1.85	-	MHz	
Amplitude Ripple	-	-	-	-	dB	
Storage Temperature	Tstg	-45	-	+90	°C	
Input Impedance at fC	117 ohms // 3.7 pF					
Output Impedance at fC	117 ohms // 3.7 pF					

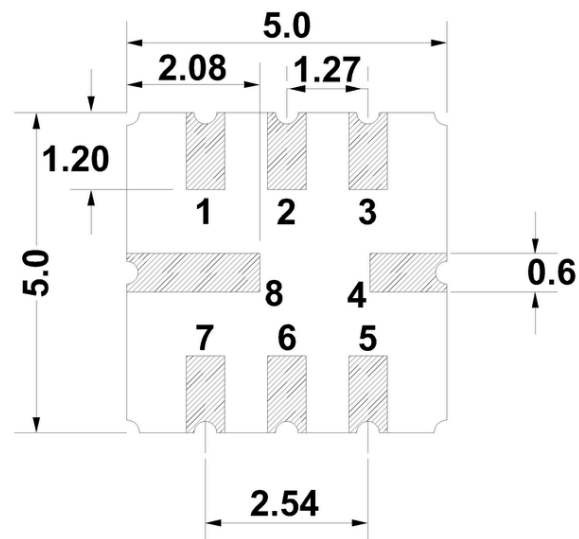
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DIMENSION(mm)

FCom mechanical template retained.
Reference height: 1.7 mm max; template: 1.5 mm max.
Confirm package dimensions before PCB layout.
Pin functions follow the reference outline.

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

Please contact FCom for other pin configurations.



FUJI CRYSTAL
PRECISELY ACCURATE

FCom SAW FILTER

Series FSF-5050-869M6

8-SMD, No Lead 5.0x5.0 mm



Feature

- Package footprint: 5.0 x 5.0 mm
- 3 dB bandwidth: 1.85 MHz typical
- Operating temperature range: -45°C to +90°C
- RoHS and REACH Compliant , Pb-free

Application

- 869.6 MHz narrowband RF BPF
- Narrowband UHF signal selection
- Receiver preselector
- Test & measurement filtering

TEST CONDITIONS AND MATCHING

50-ohm source / load. Each port: series 12 nH; shunt 5 pF on the 50-ohm side.

Reference temperature: -45°C to +90°C. Device impedance is specified at the center frequency.

Parameter reference: TA0275A Rev.2.0.

ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	fC	-	869.6	-	MHz	ILmin interval: 869.2-870.18 MHz BW3 is relative to ILmin. Amplitude ripple: Not separately specified. // = parallel R-C
Minimum Insertion Loss	ILmin	-	3.0	4.7	dB	
3 dB Bandwidth	BW3	-	1.85	-	MHz	
Amplitude Ripple	-	-	-	-	dB	
Storage Temperature	Tstg	-45	-	+90	°C	
Input Impedance at fC	117 ohms // 3.7 pF					
Output Impedance at fC	117 ohms // 3.7 pF					

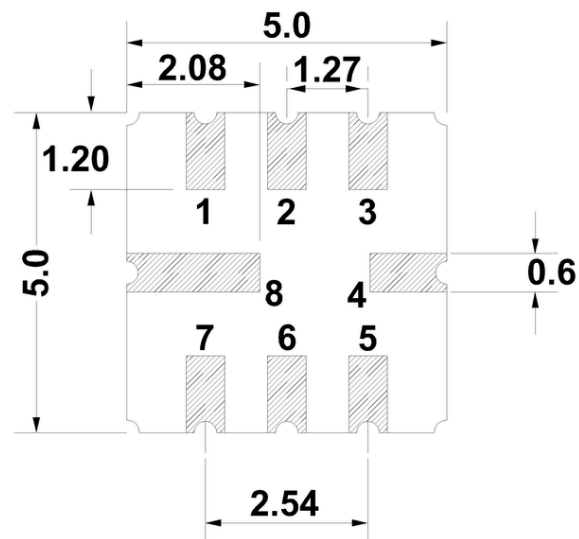
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DIMENSION(mm)

FCom mechanical template retained.
Reference height: 1.7 mm max; template: 1.5 mm max.
Confirm package dimensions before PCB layout.
Pin functions follow the reference outline.

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

Please contact FCom for other pin configurations.



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