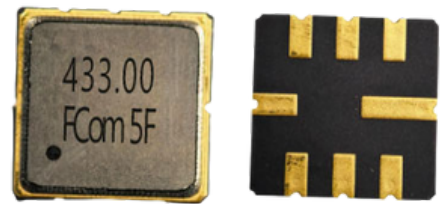


FCom SAW FILTER

Series FSF-5050-433M

8-SMD, No Lead 5.0x5.0 mm



Feature

- Package: 5.0 × 5.0 mm; height: 1.5 mm max.
- Specified passband: 429-437 MHz
- Operating temperature: -20 to +75°C
- Maximum input power: 0 dBm; DC: 10 V
- 50 Ω source / load test environment

Application

- RF signal selection at 433 MHz
- Receiver front-end bandpass filtering
- RF / IF band selection in custom designs

ELECTRICAL SPECIFICATIONS

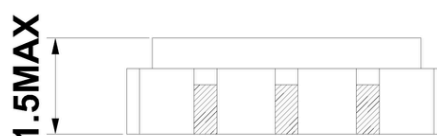
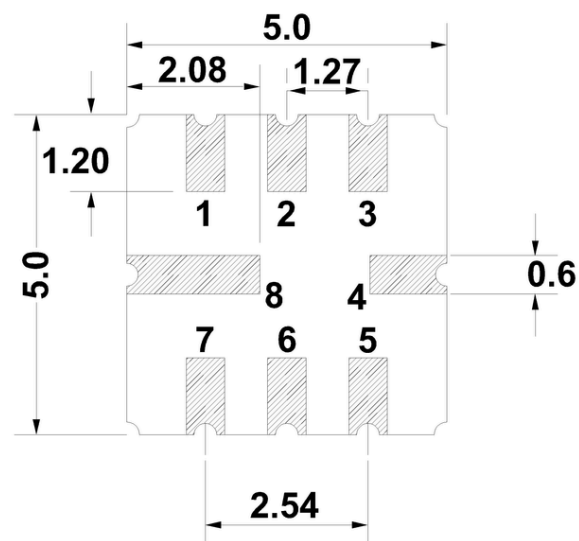
Characteristics	Test / Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	f _C	-	433	-	MHz	
Insertion Loss	429-437 MHz	-	2.7	4.5	dB	
Amplitude Ripple	429-437 MHz	-	0.7	2.5	dB	
Absolute Attenuation	333-392.2 MHz	42	50	-	dB	From 0 dB
Absolute Attenuation	473-533 MHz	40	46	-	dB	From 0 dB
Operating Temperature	TA	-20	-	+75	°C	
Storage Temperature	T _{stg}	-40	-	+85	°C	
Test Source Impedance	Z _s	-	50	-	Ω	0 pF parallel
Test Load Impedance	Z _L	-	50	-	Ω	0 pF parallel

DIMENSION(mm)

Specified passband: 429-437 MHz.
 This is not a specified 3 dB bandwidth.
 A 3 dB bandwidth value is not provided.
 Stopband attenuation is absolute, referenced to 0 dB.
 Measurement uses 50 Ω source and load impedances.
 Maximum input power: 0 dBm; maximum DC voltage: 10 V.

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

Please contact FCom for other pin configurations.

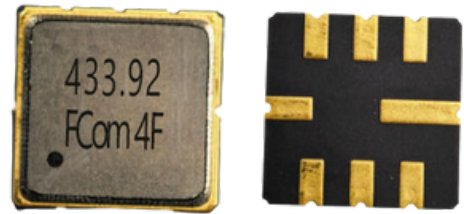


FUJI CRYSTAL
PRECISELY ACCURATE

FCom SAW FILTER

Series FSF-5050-433M92

8-SMD, No Lead 5.0x5.0 mm



Feature

- Package: 5.0 × 5.0 mm; height: 1.5 mm max.
- 3 dB bandwidth: 0.50 MHz min., 0.95 MHz typ.
- Operating temperature: -40 to +85°C
- Maximum input power: 10 dBm; DC: 3 V
- External matching for 50 Ω test ports

Application

- RF signal selection at 433.92 MHz
- Narrowband receiver channel filtering
- RF / IF band selection in custom designs

ELECTRICAL SPECIFICATIONS

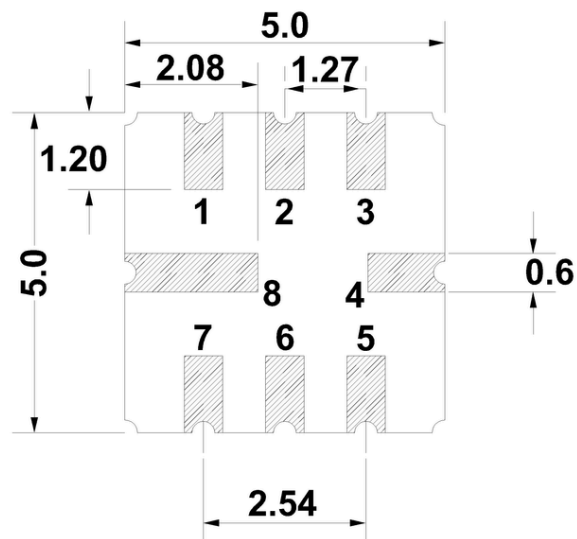
Characteristics	Test / Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	f _c	-	433.92	-	MHz	
Minimum Insertion Loss	IL _{min}	-	3.0	4.0	dB	
3 dB Bandwidth	BW ₃	0.50	0.95	-	MHz	Relative to IL _{min}
Passband Attenuation	433.67-434.17 MHz	-	0.7	3.0	dB	Relative to IL _{min}
Relative Attenuation	10-412.52 MHz	47	52	-	dB	To IL _{min}
Relative Attenuation	412.52-423.22 MHz	40	45	-	dB	To IL _{min}
Relative Attenuation	423.22-432.92 MHz	15	22	-	dB	To IL _{min}
Relative Attenuation	434.92-444.62 MHz	10	15	-	dB	To IL _{min}
Relative Attenuation	444.62-455.32 MHz	38	43	-	dB	To IL _{min}
Relative Attenuation	455.32-1000 MHz	43	48	-	dB	To IL _{min}
Operating Temperature	TA	-40	-	+85	°C	
Storage Temperature	T _{stg}	-40	-	+85	°C	
Device Input Impedance	At f _c	768 Ω 2.7 pF				R C
Device Output Impedance	At f _c	768 Ω 2.7 pF				R C
Test Source Impedance	Z _s	-	50	-	Ω	See notes
Test Load Impedance	Z _L	-	50	-	Ω	See notes

DIMENSION(mm)

Electrical reference temperature: -40 to +85°C.
 Passband limits and stopband attenuation are relative to the minimum insertion loss, IL_{min}.
 3 dB bandwidth is distinct from the specified passband.
 Measurement: 50 Ω source / load with external matching.
 Each port: 57 nH series inductance and 8 pF shunt capacitance to ground on the source / load side.
 Device impedances are 768 Ω in parallel with 2.7 pF.

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

Please contact FCom for other pin configurations.

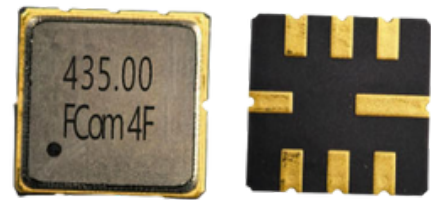


FUJI CRYSTAL
PRECISELY ACCURATE

FCom SAW FILTER

Series FSF-5050-435M

8-SMD, No Lead 5.0x5.0 mm



Feature

- Package: 5.0 × 5.0 mm; height: 1.5 mm max.
- Specified passband: 430-440 MHz
- Operating temperature: -40 to +85°C
- Maximum input power: 10 dBm; DC: 3 V
- 50 Ω source / load test environment

Application

- RF signal selection at 435 MHz
- Receiver front-end bandpass filtering
- RF / IF band selection in custom designs

ELECTRICAL SPECIFICATIONS

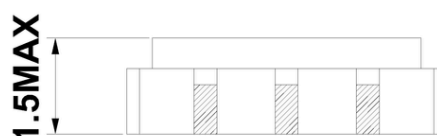
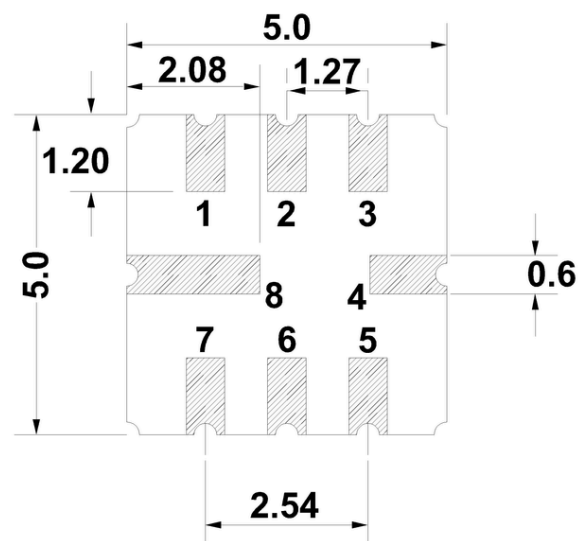
Characteristics	Test / Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	f _c	-	435	-	MHz	
Insertion Loss	430-440 MHz	-	2.3	3.3	dB	
Amplitude Ripple	430-440 MHz	-	0.8	1.7	dB	
Absolute Attenuation	335-390 MHz	40	45	-	dB	From 0 dB
Absolute Attenuation	455 MHz	30	37	-	dB	From 0 dB
Absolute Attenuation	480-490 MHz	30	40	-	dB	From 0 dB
Absolute Attenuation	490-535 MHz	40	50	-	dB	From 0 dB
Operating Temperature	T _A	-40	-	+85	°C	
Storage Temperature	T _{stg}	-40	-	+85	°C	
Test Source Impedance	Z _s	-	50	-	Ω	
Test Load Impedance	Z _L	-	50	-	Ω	

DIMENSION(mm)

Specified passband: 430-440 MHz.
This is not a specified 3 dB bandwidth.
A 3 dB bandwidth value is not provided.
Stopband attenuation is absolute, referenced to 0 dB.
Measurement uses 50 Ω source and load impedances.
No matching network is required for 50 Ω operation.
The 455 MHz attenuation limit applies at a single frequency.

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

Please contact FCom for other pin configurations.



FUJI CRYSTAL
PRECISELY ACCURATE