

FCom SAW FILTER

Series FSF-5050-246M

8-SMD, No Lead 5.0x5.0 mm



Feature

- SMD package: 5.0 x 5.0 mm
- 3 dB bandwidth: 0.5 MHz typ.
- 1 dB bandwidth: 200 kHz min.; 350 kHz typ.
- Operating temperature: -20 to +70°C

Application

- VHF receiver filtering at 246 MHz
- RF front-end signal selection
- IF filtering in superheterodyne receivers

ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	f _c	246.0			MHz	Attenuation relative to ILmin Ideal matching MHz: min./typ. dB 10-203: 50 / 65 203-240: 33 / 41 240-245: 15 / 25 247-265: 10 / 18 265-400: 39 / 47 400-1000: 50 / 57
Min. IL (real matching)	ILmin		2.1	3.4	dB	
3dB Bandwidth	BW3		0.5		MHz	
Passband relative to ILmin 245.9-246.1 MHz	-		0.5	1.5	dB	
Operating Temperature Range	T _A	-20		+70	°C	
Input impedance at Fc	2195 Ω // 1.9 pF					
Output impedance at Fc	2915 Ω // 1.68 pF					

! ILmin includes real matching losses; ideal-match ILmin: 1.9 dB typ., 3.2 dB max.
 Passband and stopband values relative to ILmin use ideal simulated matching.
 Input/output impedances at f_c are from the ideal-match model.

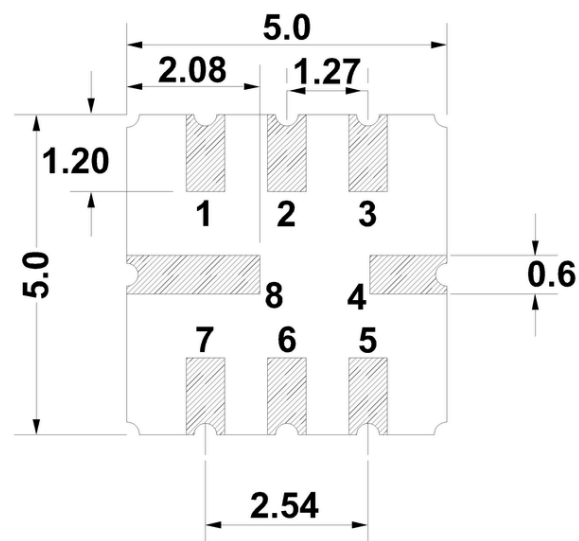
DIMENSION(mm)

MATCHING & LIMITS

50 Ω test source/load; external matching required.
 Ideal series L: 212 nH input; 245 nH output.
 Ideal shunt C: 0 pF at each port (simulation).
 Real parts: Coilcraft 0805 CS L; Murata 0402 GRM C.
 Temperature coefficient: -0.036 ppm/°C².
 Maximum RF input: 10 dBm; DC voltage: 0 V.
 Storage temperature: -40 to +85°C.

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-5050-250M

8-SMD, No Lead 5.0x5.0 mm



Feature

- SMD package: 5.0 x 5.0 mm
- Specified passband: 249.9-250.9 MHz
- Operating temperature: -40 to +85°C
- Insertion loss: 2.05 dB typ.; 3.8 dB max.

Application

- VHF receiver filtering at 250 MHz
- RF front-end signal selection
- IF filtering in superheterodyne receivers

ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	f _c	250.0			MHz	Attenuation from 0 dB MHz: min./typ. dB 150-210: 45 / 66 290-650: 43 / 58 650-700: 40 / 63
Insertion Loss	IL		2.05	3.8	dB	
3dB Bandwidth	BW3		-		MHz	
Amplitude Ripple (249.9~250.9 MHz)	-		0.13	1.8	dB	
Operating Temperature Range	T _A	-40		+85	°C	
Source impedance	50 Ω (test termination)					
Load impedance	50 Ω (test termination)					

! Insertion loss and ripple apply over 249.9-250.9 MHz (1 MHz specified passband).
3 dB bandwidth is not specified. Stopband attenuation is referenced to 0 dB.

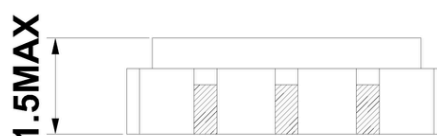
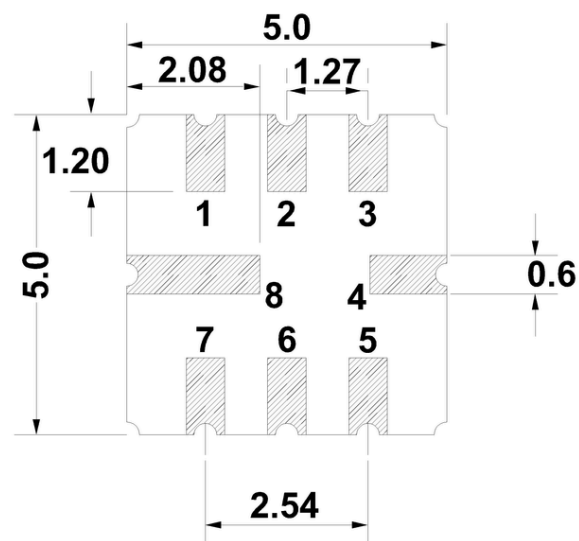
DIMENSION(mm)

TEST CONDITIONS & LIMITS

50 Ω source/load; direct test connection.
Maximum input power: 10 dBm.
Maximum DC voltage: 5 V.
Storage temperature: -40 to +85°C.

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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