

FCom SAW FILTER

Series FSF-5050-280M

8-SMD, No Lead 5.0x5.0 mm



Feature

- Standard Package: 5.0 x 5.0 x 1.5 mm
- 3 dB Bandwidth: 12.5 MHz typ.; 8.0 MHz min.
- Operating Temperature: -10 to +50°C
- Insertion Loss: 3.0 dB typ.; 4.5 dB max.

Application

- 280 MHz IF filtering in receiver signal chains
- Channel selection over $F_c \pm 4$ MHz
- Out-of-band signal rejection before downstream IF amplification or conversion

Test / Matching

50 Ω source and load; each signal port uses a series 9 pF capacitor and a shunt 47 nH inductor.
Maximum ratings: input power 0 dBm; DC voltage 5 V. Storage temperature: -40 to +85°C.

ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	F_c	-	280.0	-	MHz	
Insertion Loss	IL	-	3.0	4.5	dB	276-284 MHz
3 dB Bandwidth	BW3	8.0	12.5	-	MHz	ILmin + 3 dB
Amplitude Ripple	AR	-	0.8	2.0	dB	276-284 MHz
Absolute Attenuation	A	42	53	-	dB	180-242.5 MHz
Absolute Attenuation	A	48	60	-	dB	317.5-380 MHz
Operating Temperature	TA	-10	-	+50	°C	
Input Impedance	Not specified in reference					See matching
Output Impedance	Not specified in reference					See matching

Attenuation is absolute (0 dB reference). IL and ripple are specified over $F_c \pm 4$ MHz.

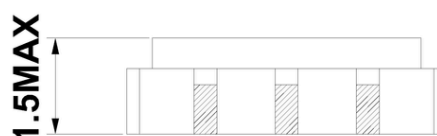
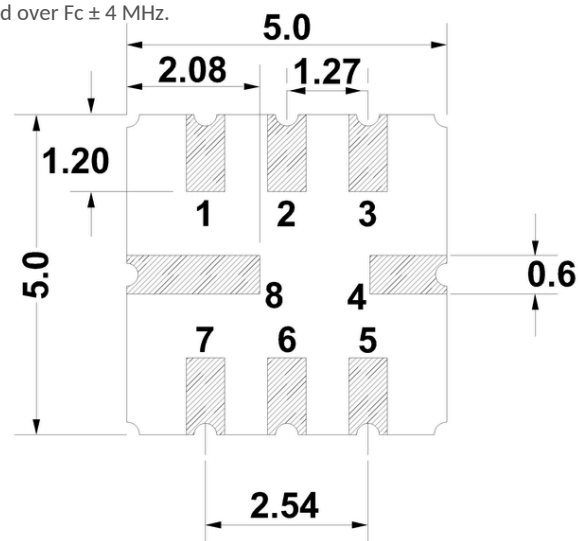
DIMENSION(mm)

3 dB bandwidth is measured relative to the minimum passband loss (ILmin).

Typical values are for design guidance.
Final production limits are defined in the official test limits and shipment CoC.

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-5050-285M

8-SMD, No Lead 5.0x5.0 mm



Feature

- Standard Package: 5.0 x 5.0 x 1.5 mm
- 3 dB Bandwidth: 12.0 MHz typ.; 8.0 MHz min.
- Operating Temperature: -10 to +50°C
- Insertion Loss: 2.5 dB typ.; 4.5 dB max.

Application

- 285 MHz IF filtering in receiver signal chains
- Channel selection over $F_c \pm 4$ MHz
- Out-of-band signal rejection before downstream IF amplification or conversion

Test / Matching

50 Ω source and load; each signal port uses a series 8.2 pF capacitor and a shunt 40 nH inductor.
Maximum ratings: input power 0 dBm; DC voltage 5 V. Storage temperature: -40 to +85°C.

ELECTRICAL SPECIFICATIONS

Characteristics	Symbol	Min.	Typ.	Max.	Units	Notes
Center Frequency	F_c	-	285.0	-	MHz	
Insertion Loss	IL	-	2.5	4.5	dB	281-289 MHz
3 dB Bandwidth	BW3	8.0	12.0	-	MHz	BW3dB
Amplitude Ripple	AR	-	1.2	2.0	dB	281-289 MHz
Absolute Attenuation	A	48	52	-	dB	185-247.5 MHz
Absolute Attenuation	A	48	52	-	dB	322.5-385 MHz
Operating Temperature	TA	-10	-	+50	°C	
Input Impedance	150 Ω // 0 pF					At F_c
Output Impedance	150 Ω // 0 pF					At F_c

Attenuation is absolute (0 dB reference). IL and ripple are specified over $F_c \pm 4$ MHz.

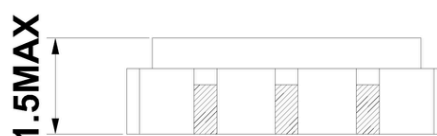
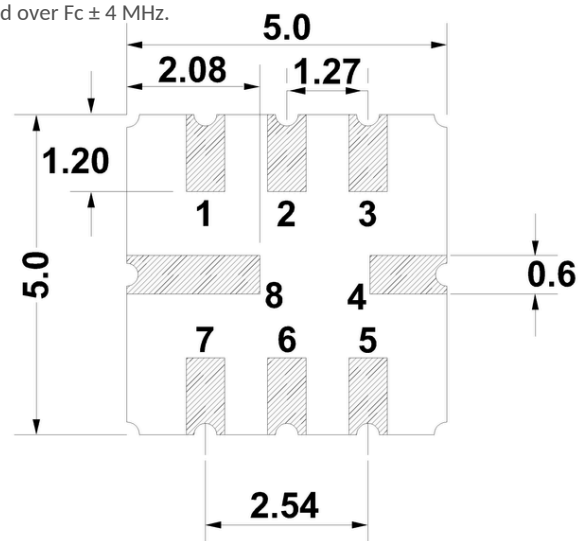
DIMENSION(mm)

Reference measurement definitions:
JIS C 6703. Device impedance differs from the 50 Ω source / load test impedance.

Typical values are for design guidance.
Final production limits are defined in the official test limits and shipment CoC.

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

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