

TMX FT01

SAW Filter datasheet

5.0 x 5.0 x 1.5 mm, SMD

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TMX FT01

SAW Bandpass Filters | Wireless Communications



Features

Features

- 169 MHz center frequency
- Ceramic Package for Surface Mounted Technology
- RF SAW Filter

Applications

- Wireless M-Bus
- Wireless applications:
 - Smart Building
 - Smart Industry

5.0 x 5.0 x 1.5 mm



Maximum Ratings

Parameter	Min.	Тур.	Max.	Unit
Storage temperature range (T _{stg})	-10		70	°C
Operating temperature range (T _A)	-40		85	°C
DC voltage (V _{DC})			3	V
Input Power Level			10	dBm

Frequency and Electrical Characteristics (Reference temperature @ 25°C)

Parameter	Min.	Typ. ¹	Max.	Unit
Center frequency (fc)		169		MHz
Insertion loss (IL) at ILmin ²		1.5	2.8	dB
Bandwidth (BW @ -3dB, passband width)	6.00	8.80		dB
Relative Attenuation (Relative to ILmin)				dB
From 119 to 139 MHz	42	54		
From 139 to 154 MHz	36	52		
From 199 to 219 MHz	40	51		
Source impedance ³ (Single ended)		50		Ω
Load impedance ³ (Single ended)		50		Ω

Issue: Rev 2, 1 December 2022

¹ Typical values are nominal performances at room temperature

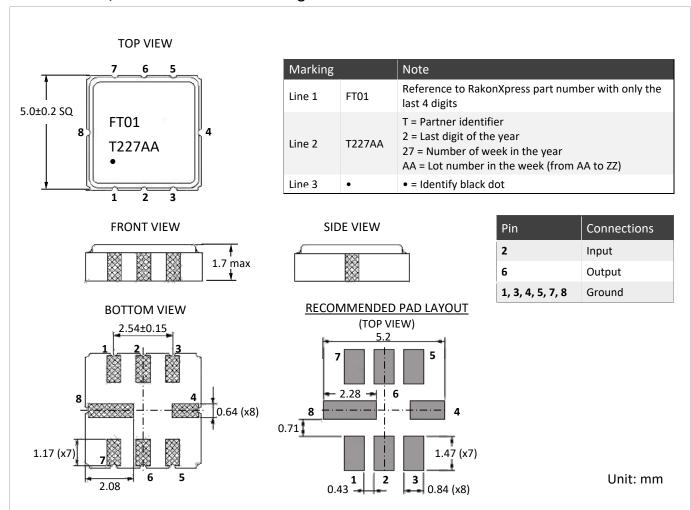
² ILmin is the minimum of the pass band attenuation. The center frequency Fc is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the ILmin.

³ No external matching circuit is required

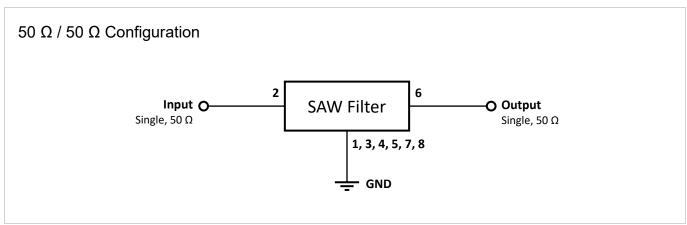




Model Outline, Pin Connection and Marking



Test Circuit



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Frequency Characteristics

