

## TMX CT03

### SAW Filter datasheet

3.0 x 3.0 x 1.1 mm, SMD

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## TMX CT03

SAW Bandpass Filters | Wireless Communications

### Features

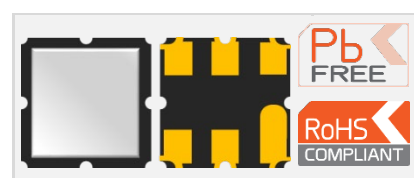
#### Features

- 770 MHz center frequency
- Ceramic package for Surface Mounted Technology
- Low Loss: 2.1 dB typical value within PassBand Width 760 to 780 MHz

#### Applications

- Wireless applications

3.0 x 3.0 x 1.1 mm



### Maximum Ratings

Parameter	Min.	Typ.	Max.	Unit
Storage temperature range ( $T_{stg}$ )	-40		85	°C
Operating temperature range ( $T_A$ )	-20		70	°C
DC Voltage ( $V_{DC}$ )			3.0	V
Input Power			10	dBm

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

Parameter	Min.	Typ. <sup>1</sup>	Max.	Unit
Source impedance <sup>2</sup> (Single ended)		50		$\Omega$
Load impedance <sup>2</sup> (Single ended)		50		$\Omega$
Center frequency ( $f_c$ )		770		MHz
Bandwidth (BW, passband width)	20.00			MHz
Absolute Attenuation				dB
From 560 to 730 MHz	48	51.4		
From 824 to 849 MHz	36	44		
From 849 to 970 MHz	50	64		
Insertion loss (IL, 760 – 780 MHz)		2.1	3.0	dB
Amplitude ripple (760 – 780 MHz)		0.6	1.5	dB
VSWR (760 – 780 MHz)		1.6	2.0	

<sup>1</sup> Typical values are nominal performances at room temperature

<sup>2</sup> No external matching is required

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## Model Outline, Pin Connection and Marking

3.0 SQ

Marking		Note
Line 1	NNNN	Reference to RakonXpress part number with only the last 4 digits
Line 2	RYWWZZ	R = Partner identifier Y = Last digit of the year WW = Number of week in the year ZZ = Lot number in the week (from AA to ZZ)
Line 3	•	• = Identify black dot

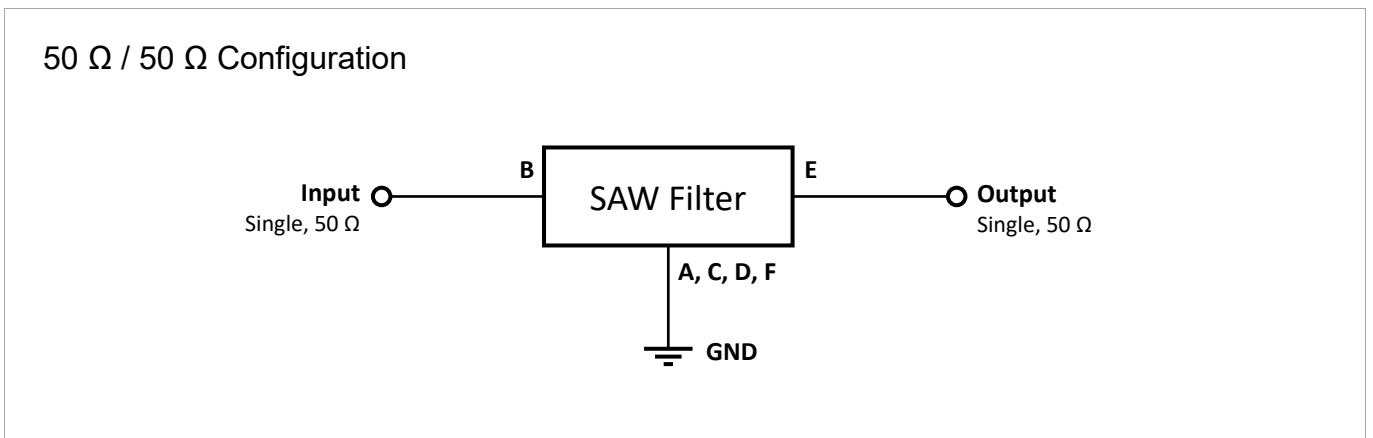
0.9

1.4 max

Pin	Connections
B	Input
E	Output
A, C, D, F	GND

Unit: mm

## Test Circuit



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## Frequency Characteristics

