

## TMX W357

### SAW Filter datasheet

3.0 x 3.0 mm, SMD

#### Table of Contents

<b>Features</b> .....	1
<b>Maximum Ratings</b> .....	1
<b>Frequency and Electrical Characteristics (Reference temperature @ 25°C)</b> .....	1
<b>Model Outline, Pin Connection and Marking</b> .....	2
<b>Test Circuit</b> .....	2
<b>Frequency Characteristics</b> .....	3
<b>Packaging</b> .....	4

## TMX W357

SAW Bandpass Filters | Land Mobile Radio

### Features

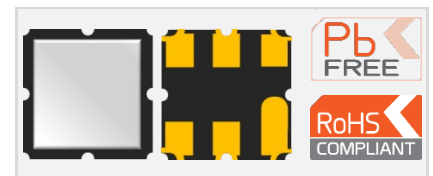
#### Features

- 860.5 MHz center frequency
- Ceramic package for Surface Mounted Technology
- 19 MHz useable Passband
- 50  $\Omega$  Single Configuration

#### Applications

- Land Mobile Radio

3.0 x 3.0 mm



### Maximum Ratings

Parameter	Min.	Typ.	Max.	Unit
Storage temperature range ( $T_{stg}$ )	-40		85	$^{\circ}\text{C}$
Operating temperature range ( $T_A$ )	-30		85	$^{\circ}\text{C}$
DC Voltage ( $V_{DC}$ )			3	V
Input Power			10	dBm

### Frequency and Electrical Characteristics (Reference temperature @ 25 $^{\circ}\text{C}$ )

Parameter	Min.	Typ. <sup>1</sup>	Max.	Unit
Source impedance (Single ended)		50		$\Omega$
Load impedance (Single ended)		50		$\Omega$
Center frequency ( $f_c$ )		860.5		MHz
Bandwidth @ -3dB (BW, passband width)	19.00			MHz
Absolute Attenuation				dB
DC to 806 MHz	27	54		
From 806 to 824.8 MHz	37	54		
From 896.6 to 902 MHz	25	31		
From 905.825 to 924.825 MHz	27	40		
From 960.65 to 979.65 MHz	37	65		
From 1070.3 to 1089.3 MHz	47	65		
From 1089.3 to 3000 MHz	24	28		
Insertion Loss (IL, 851 – 870 MHz)		2.2	3.3	dB
Amplitude ripple (851 – 870 MHz)		0.6	1.5	dB
Group Delay ripple (851 – 870 MHz)		12	60	ns
Return Loss (851 – 870 MHz)	9.5	13		

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

# TMX W357

SAW Bandpass Filters | Land Mobile Radio



## Model Outline, Pin Connection and Marking

Marking		Note
Line 1	W357	Reference to RakonXpress part number with only the last 4 digits. W357 = TMXW357
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

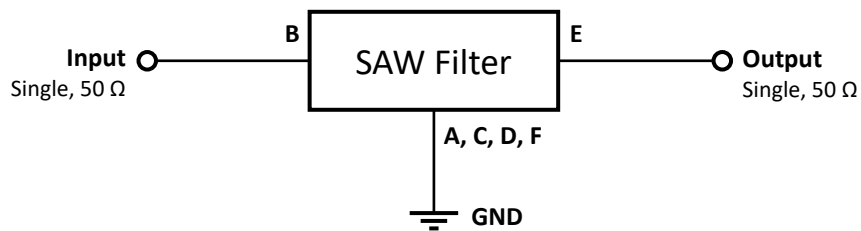
  

Pin	Connections
B	Input
E	Output
A, C, D, F	Case Ground

Unit: mm

## Test Circuit

### 50 Ω / 50 Ω Configuration



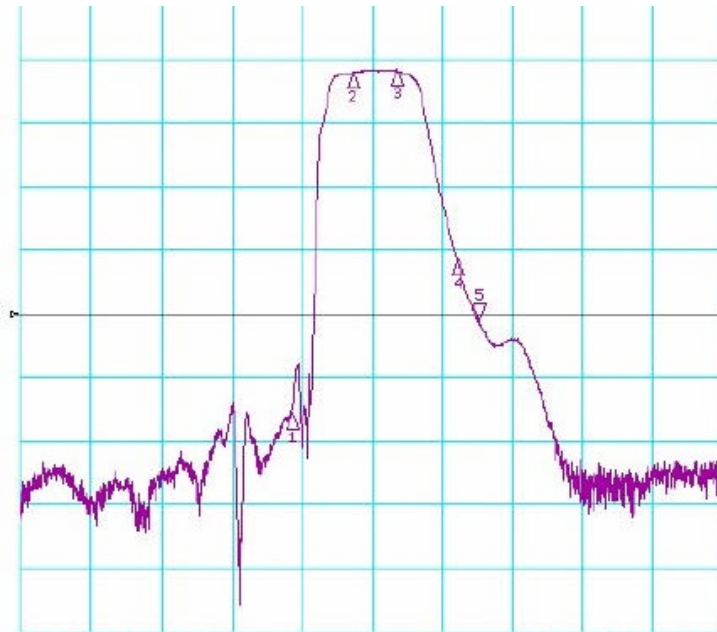
# TMX W357

SAW Bandpass Filters | Land Mobile Radio

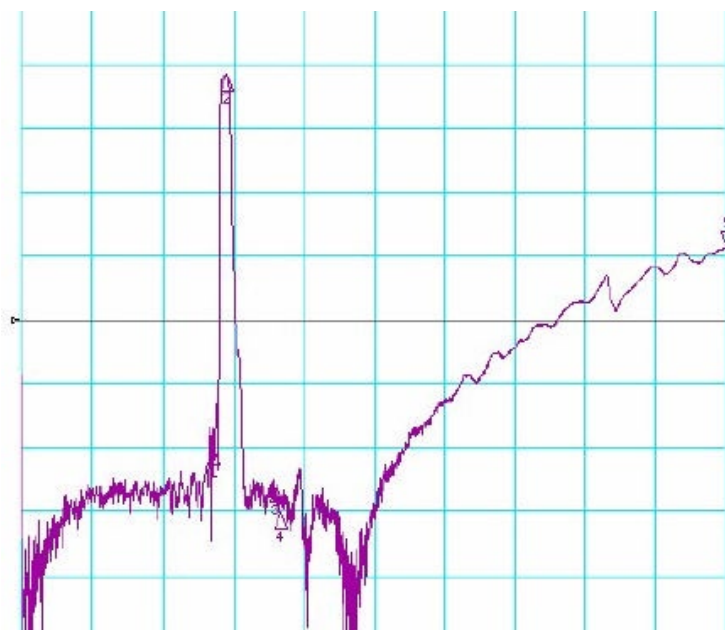


## Frequency Characteristics

FREQUENCY RESPONSE



FREQUENCY RESPONSE



# TMX W357

SAW Bandpass Filters | Land Mobile Radio



## Packaging

### REEL DETAILS:

