

TMX W329

SAW Filter datasheet

3.0 x 3.0 mm, SMD

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TMX W329

SAW Bandpass Filters | GSM Rx

Features

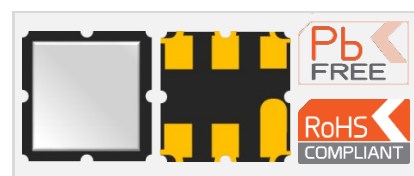
Features

- 942.5 MHz center frequency
- Ceramic package for Surface Mounted Technology
- RF SAW Filter

Applications

- GSM Rx

3.0 x 3.0 mm



Maximum Ratings

Parameter	Min.	Typ.	Max.	Unit
Storage temperature range (T_{stg})	-40		85	°C
Operating temperature range (T_A)	-30		85	°C
DC Voltage (V_{DC})			3	V
RF Power Dissipation			15	dBm

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

Parameter	Min.	Typ. ¹	Max.	Unit
Center frequency (f_c)		942.5		MHz
Bandwidth (BW, passband width)	35.00			MHz
Insertion loss (IL, 925 – 960 MHz)		2.8	4.0	dB
Amplitude ripple (925 – 960 MHz)		1.1	2.3	dB
Attenuation				
From 0 to 800 MHz	50	63		dB
From 800 to 880 MHz	40	48		dB
From 880 to 905 MHz	35	43		dB
From 980 to 982 MHz	20	27		dB
From 982 to 1005 MHz	23	28		dB
From 1005 to 1025 MHz	29	33		dB
From 1025 to 1760 MHz	40	50		dB
From 1760 to 2300 MHz	30	41		dB
From 2300 to 3000 MHz	20	28		dB
Source impedance ² (Single ended)		50		Ω
Load impedance ² (Single ended)		50		Ω

¹ Typical values are nominal performances at room temperature

² No external matching is required

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Model Outline, Pin Connection and Marking

TOP VIEW

3.0 ± 0.1
SQ

W329
E033AA
•

FRONT VIEW

1.5 max

0.9 ± 0.08

BOTTOM VIEW

1.6

1.5

1.3

0.85 (x5)

0.6 (x6)

Marking		Note
Line 1	W329	RakonXpress designation
Line 2	E033AA	E = Production code O = The last digit of year 2016 33 = Week 36 of the year AA = Internal code (Wafer batch)
Line 3	•	• = Identify black dot

Pin	Connections
2	Input
5	Output
1, 3, 4, 6	Case Ground

RECOMMENDED PAD LAYOUT

TOP VIEW

2.20

1.70

2.15

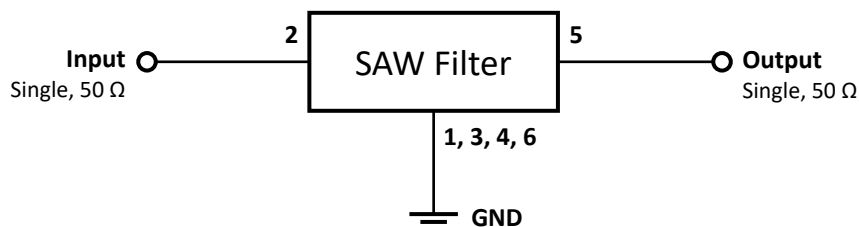
1.05 (x5)

0.80 (x6)

Unit: mm

Test Circuit

50 Ω / 50 Ω Configuration



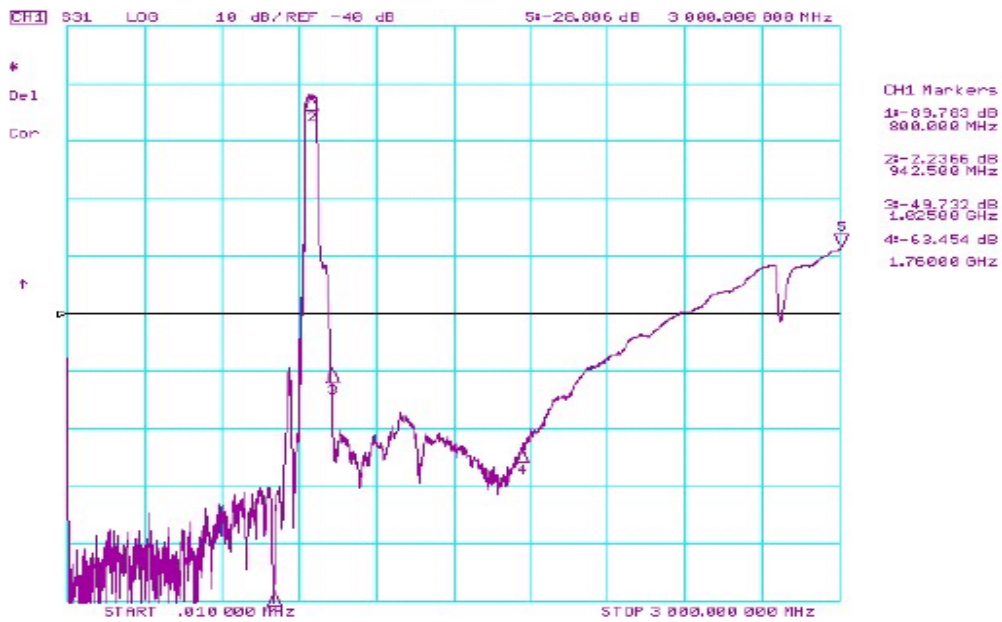
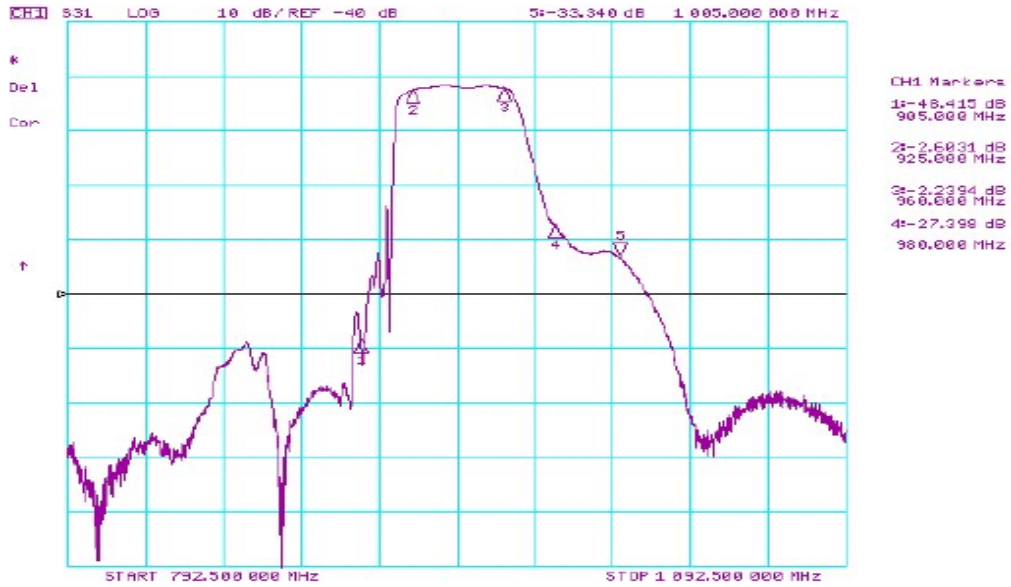
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Frequency Characteristics

TYPICAL S21 RESPONSE



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Packaging

REEL DETAILS:

