

TMX FT02

SAW Filter datasheet

1.4 x 1.1 mm, SMD

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Features

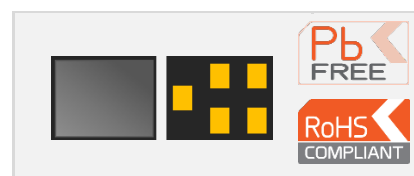
Features

- 1575.42 MHz center frequency
- Ceramic package for Surface Mounted Technology

Applications

- GPS SAW Filter

1.4 x 1.1 mm



Maximum Ratings

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

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

Parameter	Min.	Typ. ¹	Max.	Unit
Center frequency (fc)		1575.42		MHz
Bandwidth (BW, passband width)	2.00			MHz
Insertion Loss (IL) at IL _{min}		0.9	1.5	dB
Amplitude ripple (1574.42 – 1576.42 MHz)		0.1	0.75	dB
Relative attenuation (relative to IL)				dB
From DC to 1450 MHz	35	38		
From 1450 to 1520 MHz	30	45		
From 1625 to 1640 MHz	45	40		
From 1640 to 1805 MHz	38	40		
From 1910 to 2000 MHz	38	43		
From 2000 to 4000 MHz	30	45		
From 4000 to 6000 MHz	20	22		
VSWR (1574.42 – 1576.42 MHz)		1.15	1.6	dB
Source impedance (Single ended)		50		Ω
Load impedance ² (Single ended)		50		Ω

¹ Typical values are nominal performances at room temperature

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Model Outline, Pin Connection and Marking

TOP VIEW

FRONT VIEW

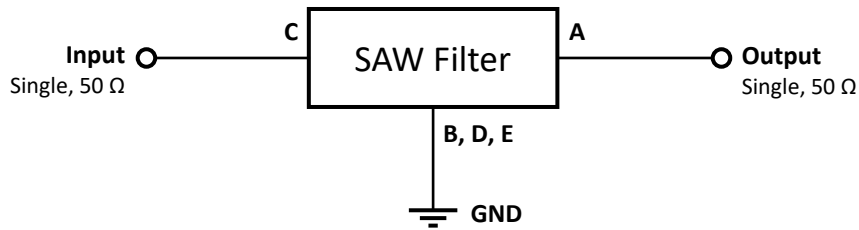
BOTTOM VIEW

Marking		Note
Line 1	X L	X = Partner identifier L = Date code in one letter

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

Test Circuit

50 Ω / 50 Ω Configuration

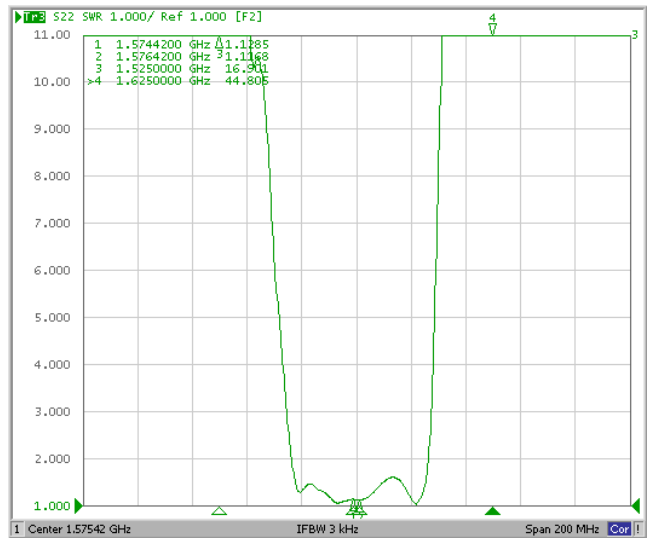
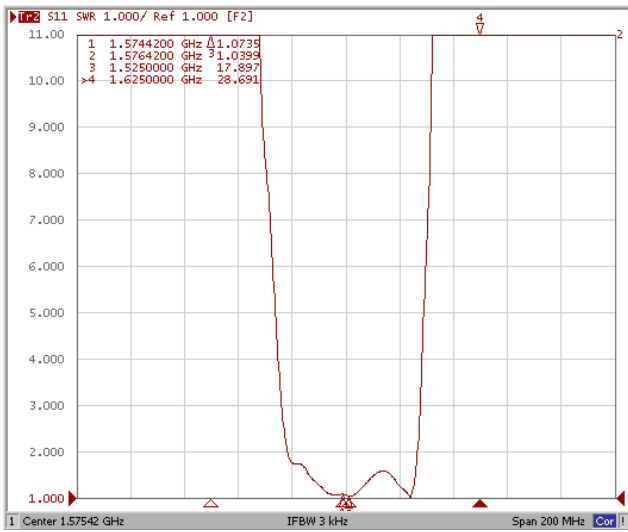
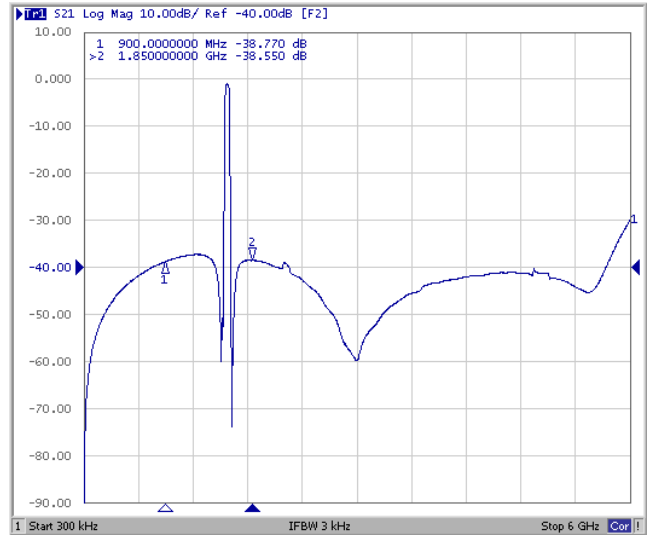
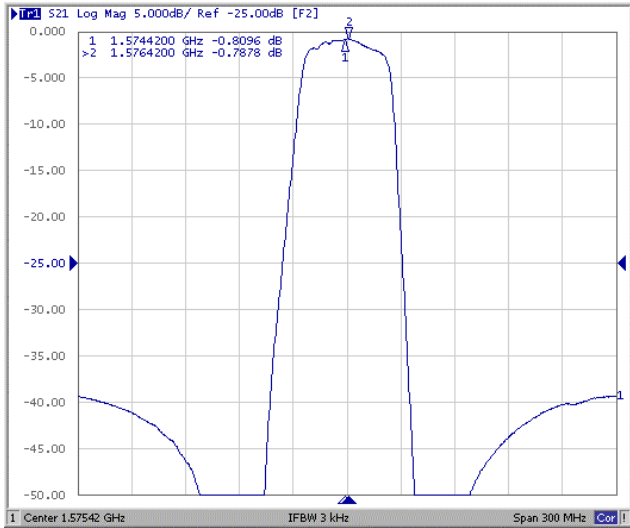


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Frequency Characteristics

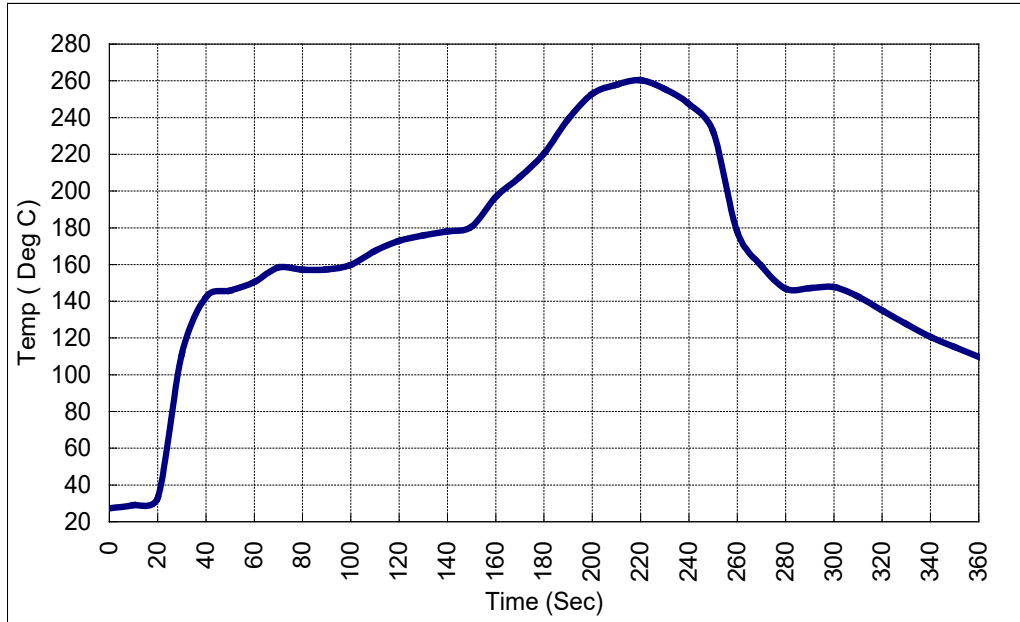


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Recommended Reflow Soldering Profile



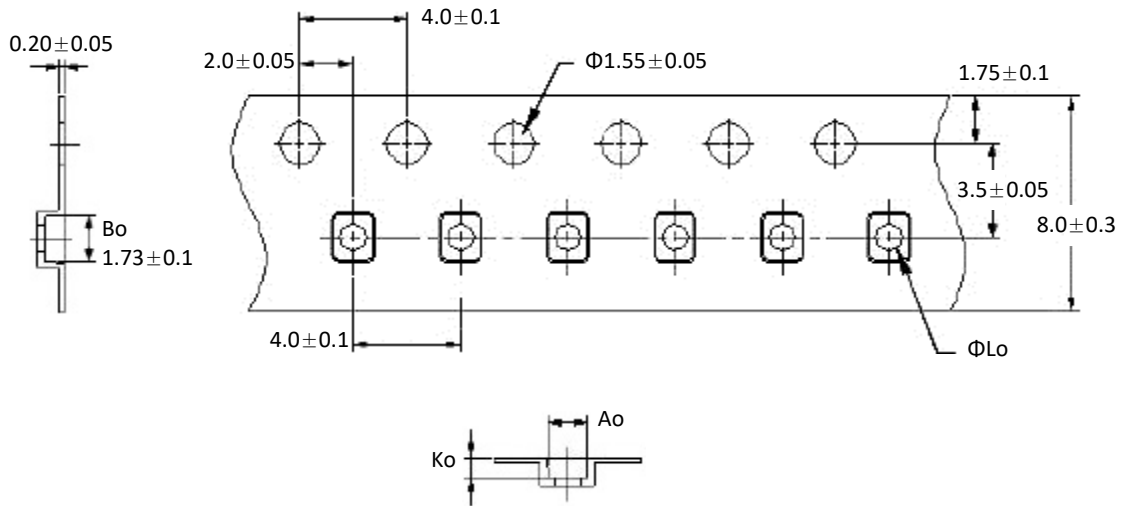
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Packaging

TAPE DETAILS:



REEL DETAILS:

