

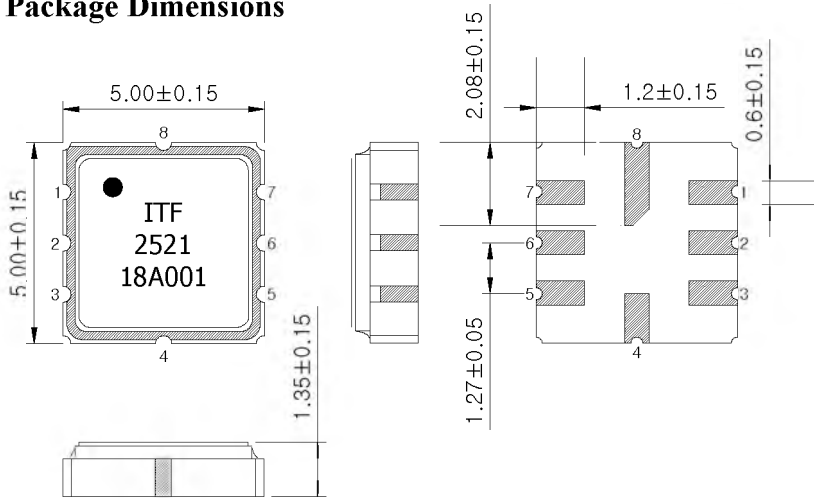
SAW Bandpass Filter F2521



Features

- RF bandpass filter
- Usable bandwidth 3.0 MHz
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (5.0mm * 5.0mm)
- RoHS Compliant

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al_2O_3 Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 μm , Over a 1.27 ~ 8.89 μm
Ni Plating

Pin Configuration

Pin Configuration	
2	Input
6	Output
1, 3, 4, 5, 7, 8	Ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	$^{\circ}\text{C}$	-30	25	60
Storage Temperature Range	$^{\circ}\text{C}$	-40	-	85
Power Handling Capability	dBm	-	-	-

Electrostatics Sensitive Device (ESD)

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Specifications

$F_c = 252.5 \text{ MHz}$

		Minimum	Typical	Maximum
Center Frequency (F_c)	MHz	-	252.5	-
Insertion Loss ($F_c \pm 1.5 \text{ MHz}$)	dB	-	2.3	3.0
Amplitude Ripple ($F_c \pm 1.5 \text{ MHz}$)	dB	-	0.7	1.5
VSWR ($F_c \pm 1.5 \text{ MHz}$)		-	2.1	2.5
1dB Bandwidth	MHz	-	5.7	-
3dB Bandwidth	MHz	-	7.0	-
Absolute Attenuation				
50.0 ~ 236.0 MHz	dB	55	60	-
236.0 ~ 246.0MHz		35	40	-
259.0 ~ 269.0MHz		40	45	-
269.0 ~ 500.0MHz		50	55	-

Notes :

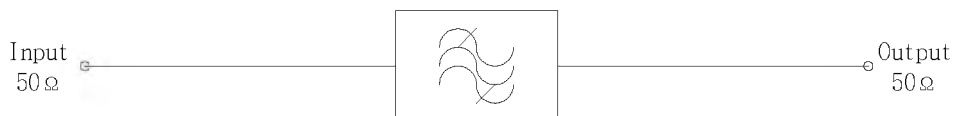
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

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Matching Schematic

(Actual matching values may vary due to PCB layout and parasitics)



Marking Configuration

1)
●
ITF 2)
2521 3)
18A001 4)

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

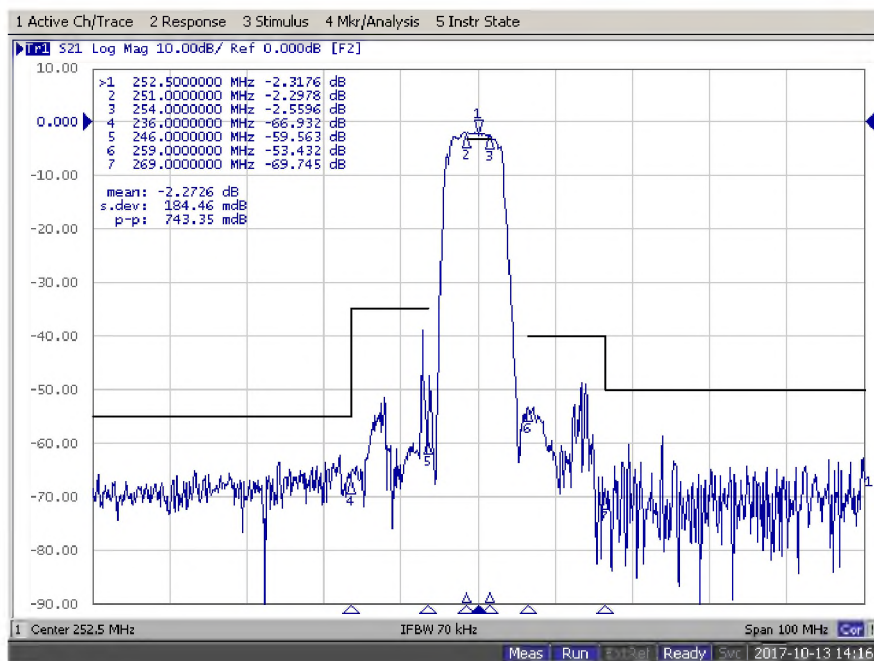
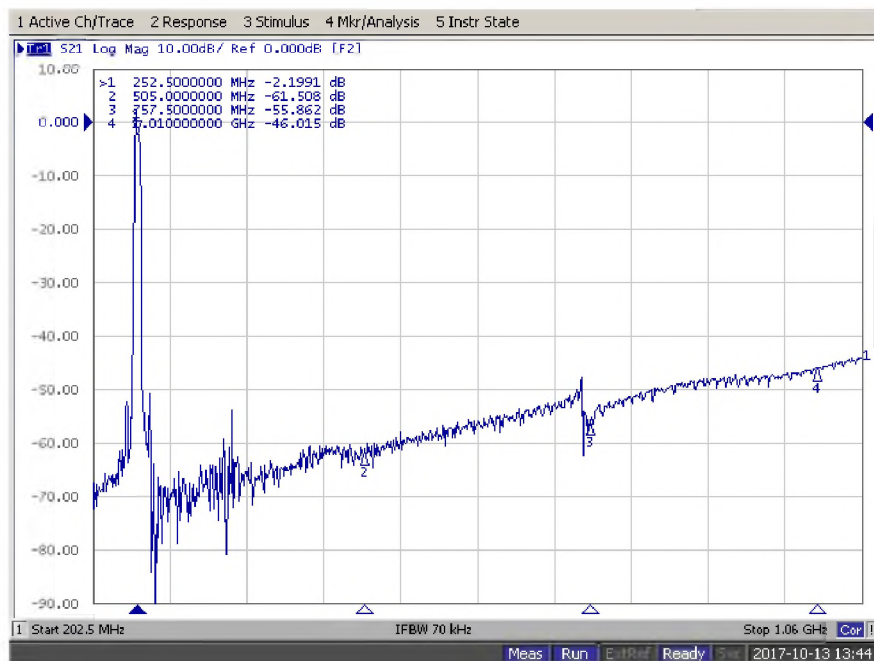
4) Lot Number

* Ink or Laser Marking available

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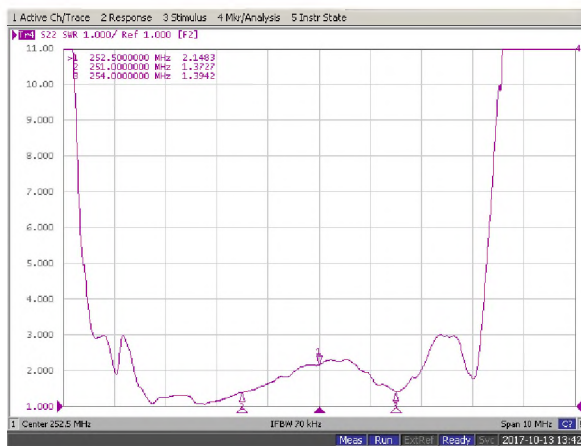
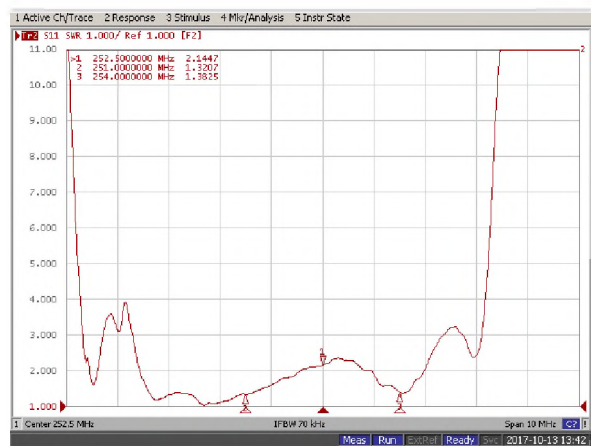
Typical Performance (at 25°C)



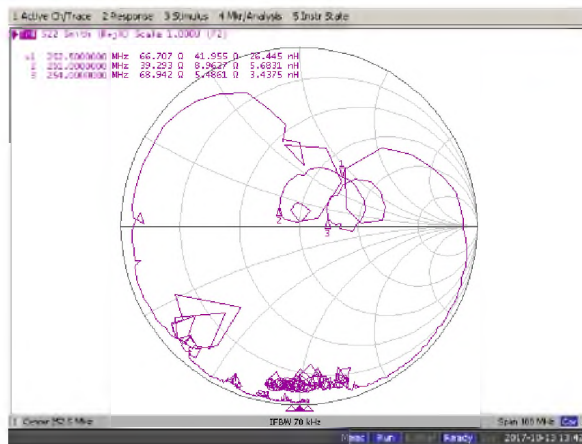
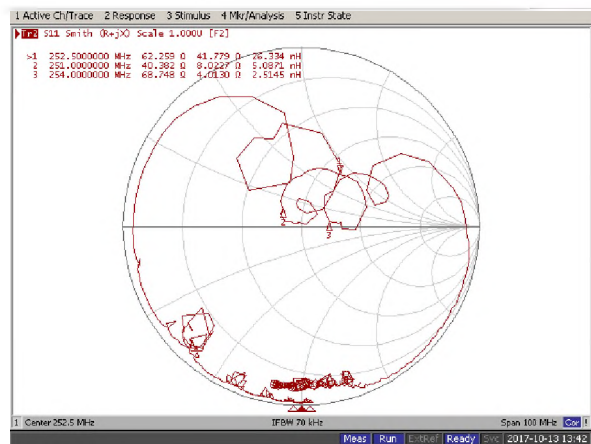
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Input / Output VSWR Charts



Input / Output Smith Charts

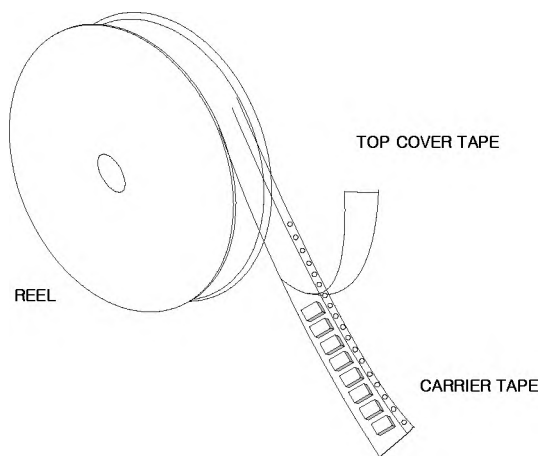


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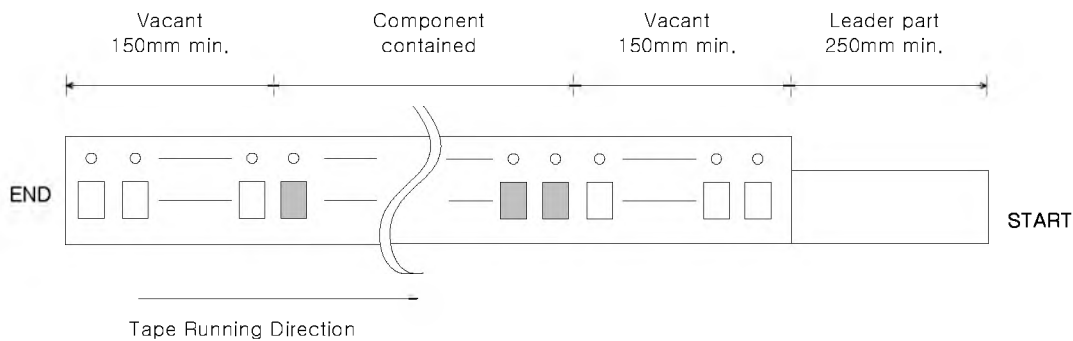
Packing Specification

1. Reeling Quantity : 1000 pcs / reel
2. Taping Structure : The tape shall be wound around the reel in the direction shown below.



Tape Specification

1. Leader part and vacant position specification



2. Tensile strength of carrier tape

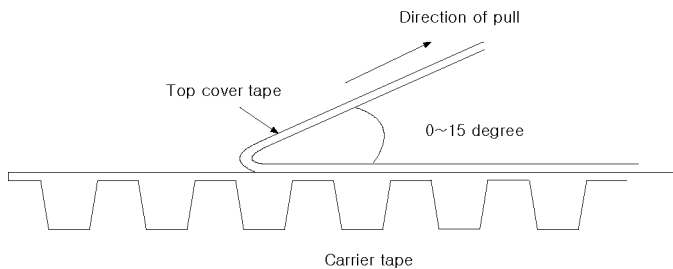
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

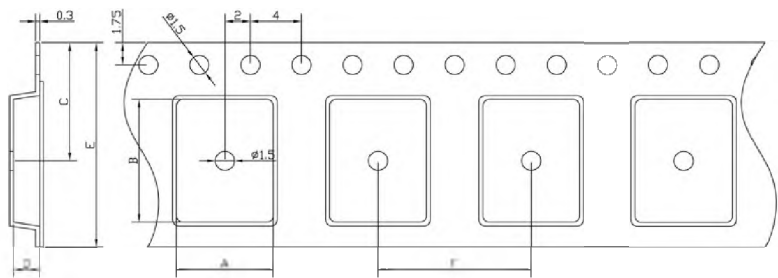
3) force : 20~70g



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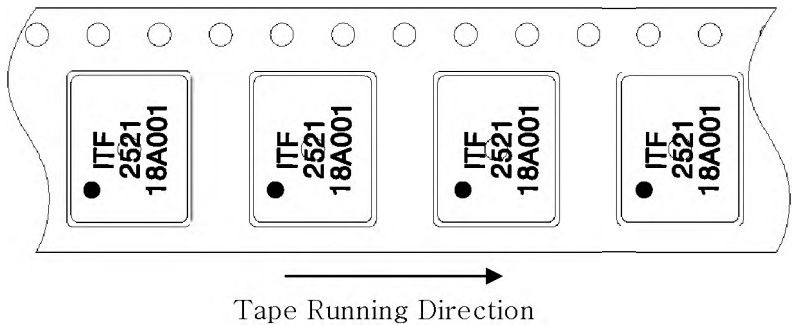


Carrier Tape Dimensions [unit : mm]



A	5.50 ± 0.1
B	5.50 ± 0.1
C	7.25 ± 0.1
D	1.95 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]

