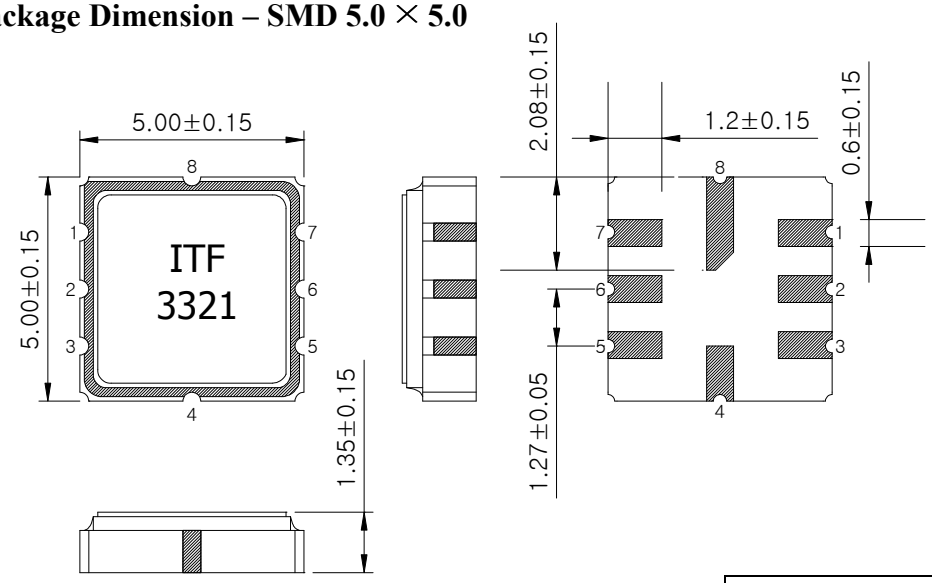
SAW Bandpass Filter F3321

Features

- RF bandpass filter
- High attenuation
- Usable bandwidth 6MHz
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (5.0 mm * 5.0 mm)
- RoHS Compliant

Package Dimension – SMD 5.0 × 5.0



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

Dimensions shown are nominal in millimeters

Body : Al_2O_3 Ceramic
Lid : Kovar, Ni Plated
Terminations : Au plating 0.3 ~ 1.0 um, Over a 1.27 ~ 8.89 um Ni Plating

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-30	25	85
Storage Temperature Range	℃	-30	25	85
Power Handling Capability	dBm		0	

Electrostatics Sensitive Device (**ESD**)

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Specifications

Fc = 332 MHz

Terminating source impedance : 50Ω

Terminating load impedance : 50Ω

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	332	-	MHz
Insertion Loss (In Fc +/- 3 MHz)	-	2.0	3.5	dB
Amplitude Ripple (In Fc +/- 3 MHz)	-	1.0	1.5	dBp-p
VSWR (In Fc +/- 3 MHz)	-	2.0	2.5	
Relative Attenuation DC ~ 312 MHz 352 ~ 800 MHz	 35.0 35.0	 40.0 40.0	 - -	dB
Temperature Range (Operational)	-30	25	85	℃
Input RF Power (In Fc +/- 3 MHz)	-	0	-	dBm
Input/Output Impedance		50		Ohms

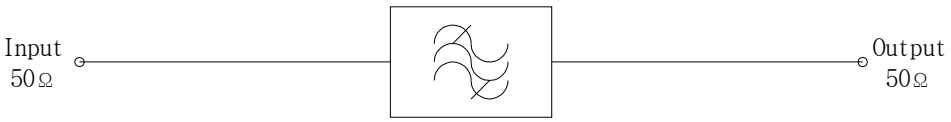
Notes :

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

Matching Schematic

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



Marking Configuration

ITF [1)]

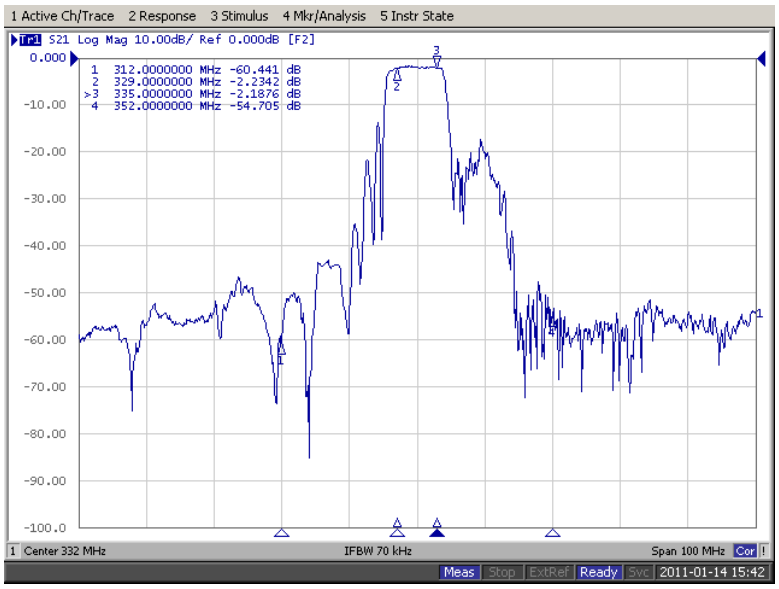
3321 [2)]

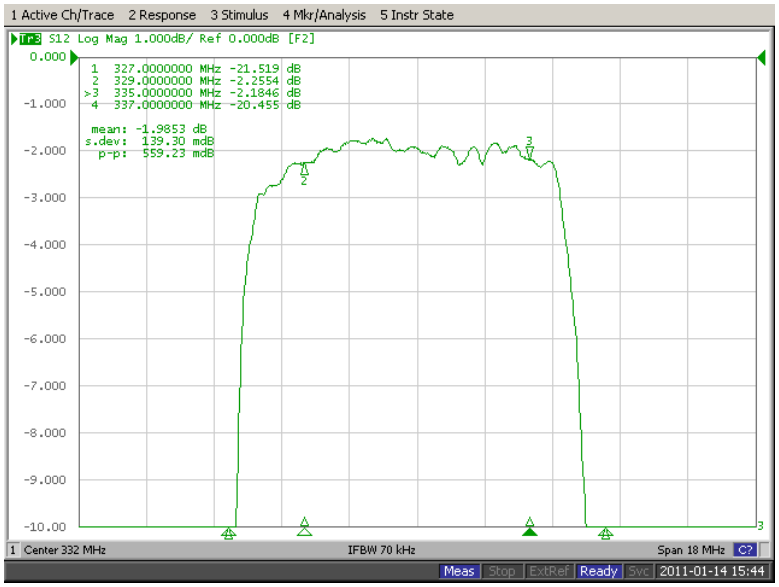
1) Pad Number 1 Index

2) Manufacturer name

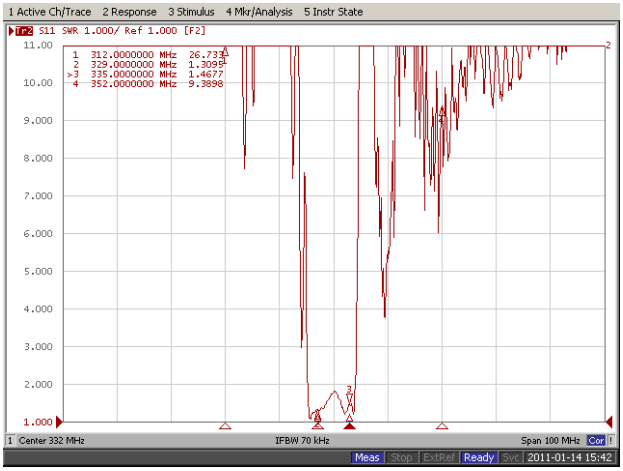
3) Marking Number

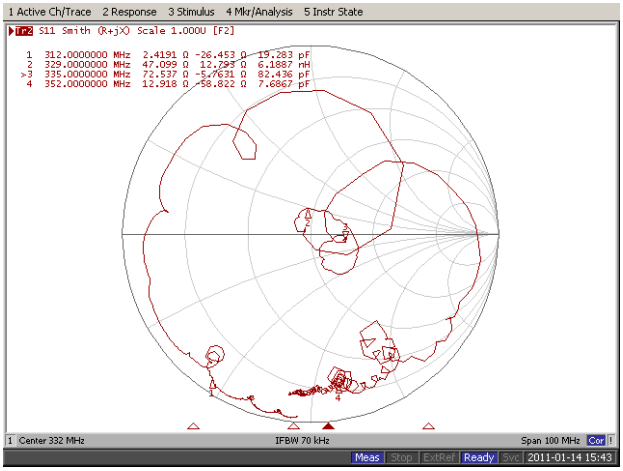
Typical Performance (at 25℃)



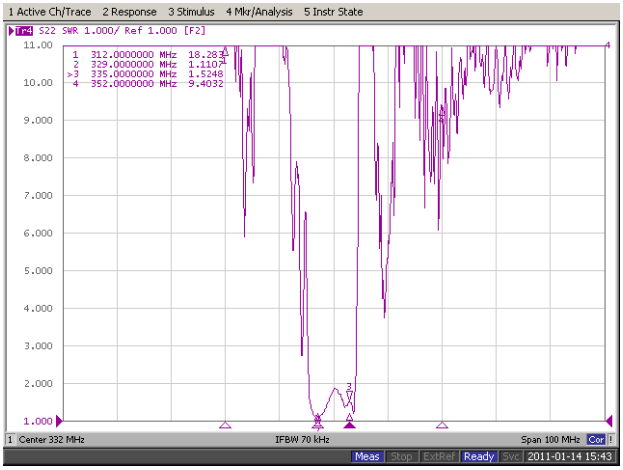


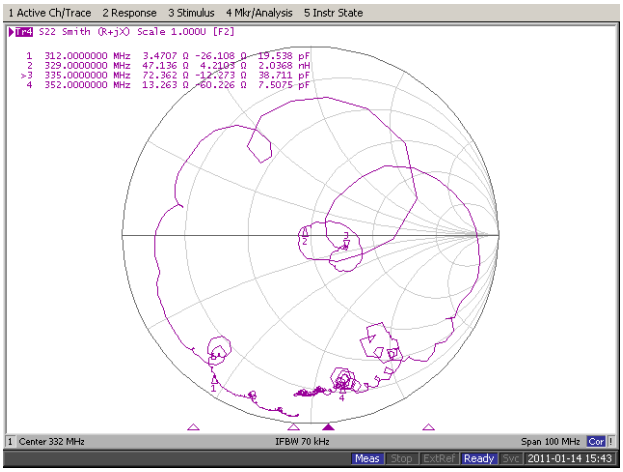
Input / Output VSWR Charts





Input / Output Smith Charts

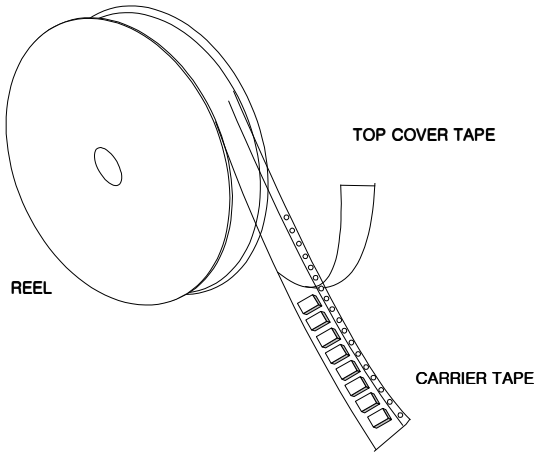




Packing Specification

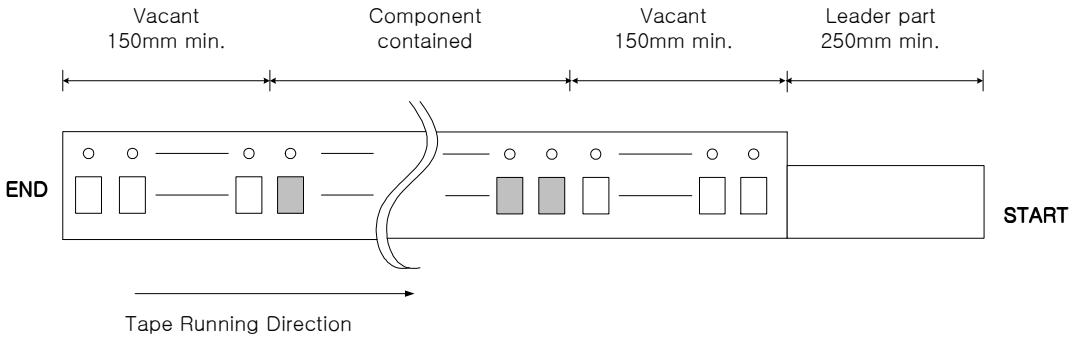
1. Reeling Quantity : 1000 pcs / reel

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

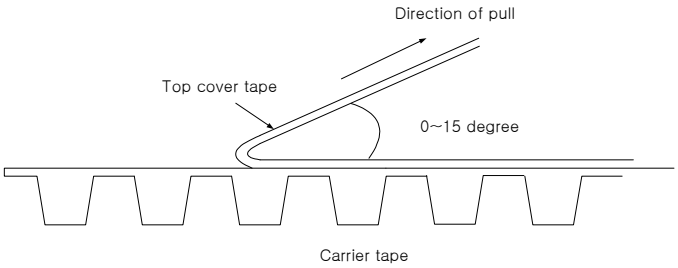
4.4N/mm width

3. Top cover tape adhesion

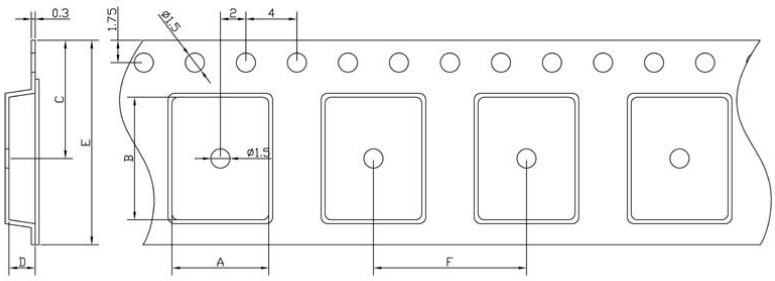
1) pull off angle : 0~15°

2) speed : 300mm/min

3) force : 20~70g

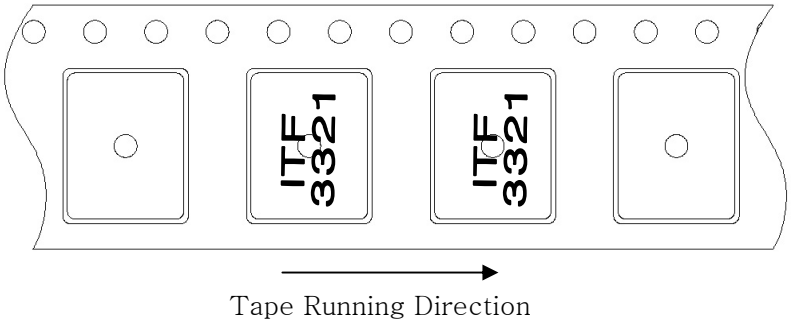


Carrier Tape Dimensions [unit : mm]



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]