

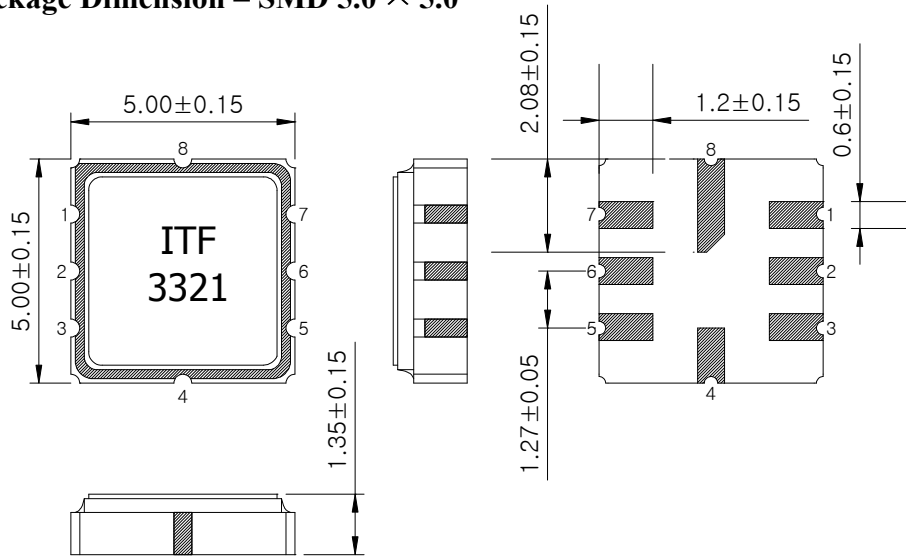
SAW Bandpass Filter F3321



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



Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

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

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

Maximum Ratings

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

Electrostatics Sensitive Device (ESD)

| | | | | |
|--|---|-----------|--------------|-----|
| | ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809 | Part No. | NSMA01-F3321 | |
| | | Rev. Date | 2011-1-14 | |
| | | Rev. | AS 01 | 1/7 |

SAW Bandpass Filter F3321



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 | 35.0 | 40.0 | - | dB |
| 352 ~ 800 MHz | 35.0 | 40.0 | - | |
| Temperature Range (Operational) | -30 | 25 | 85 | °C |
| 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

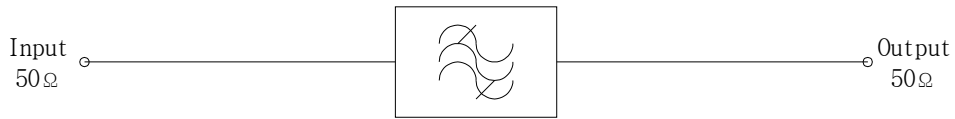
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Matching Schematic

(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

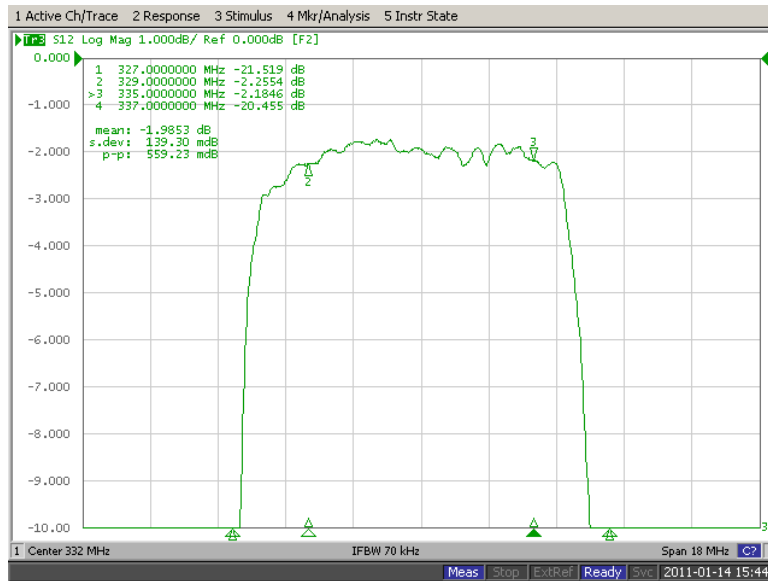
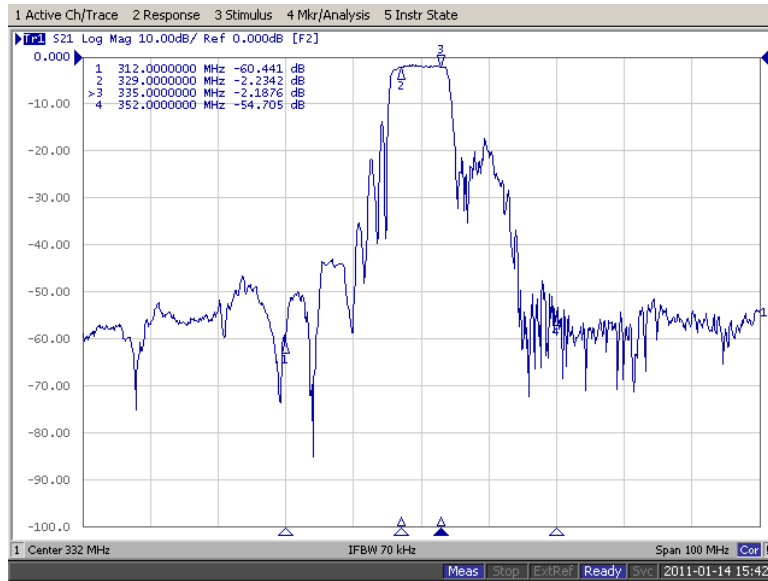
3) Marking Number


| | | | | |
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Typical Performance (at 25°C)

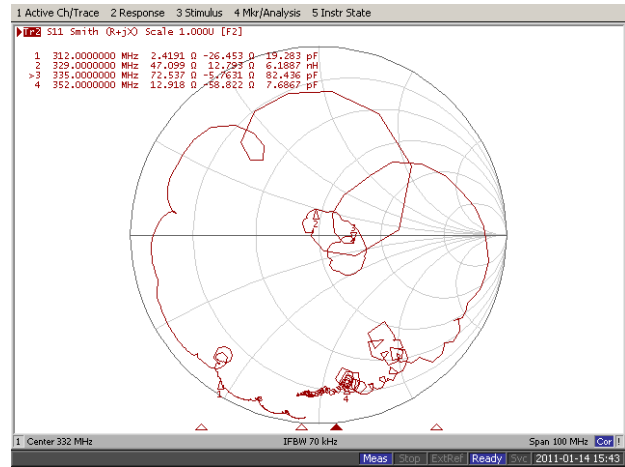
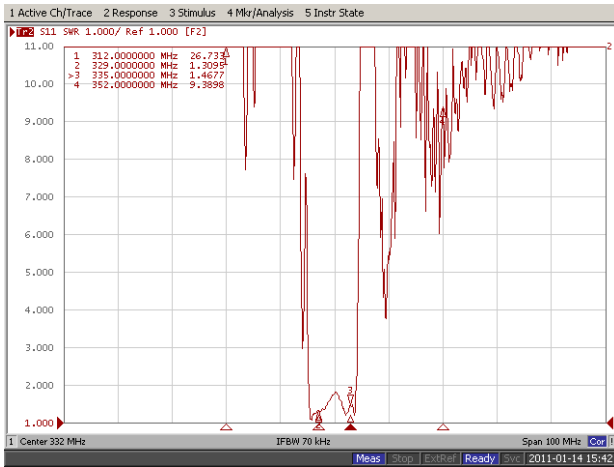


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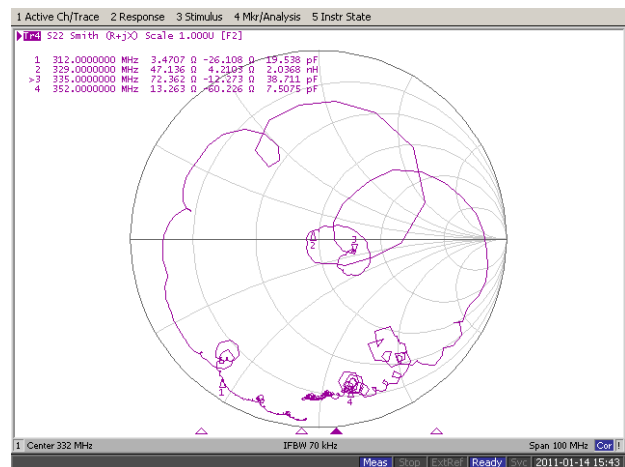
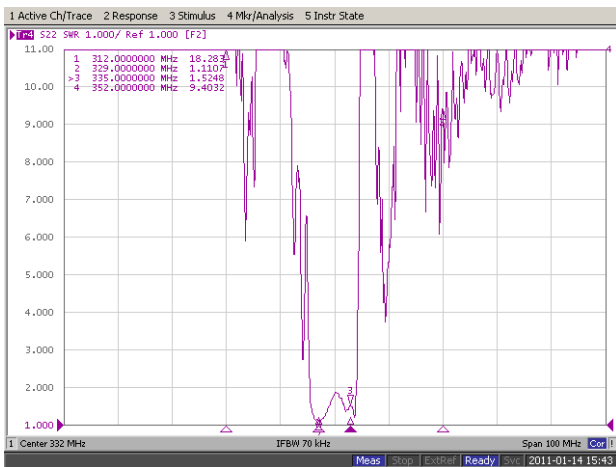
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Input / Output VSWR Charts



Input / Output Smith Charts

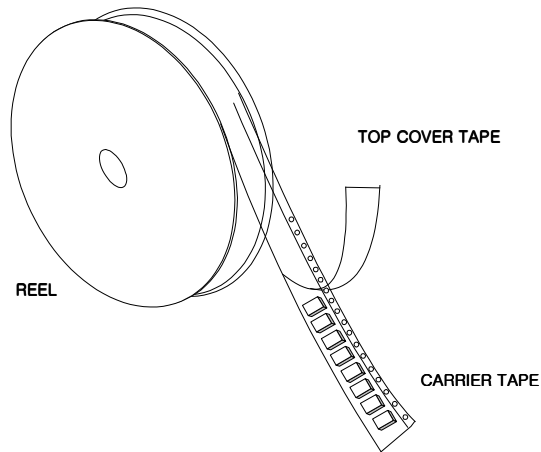


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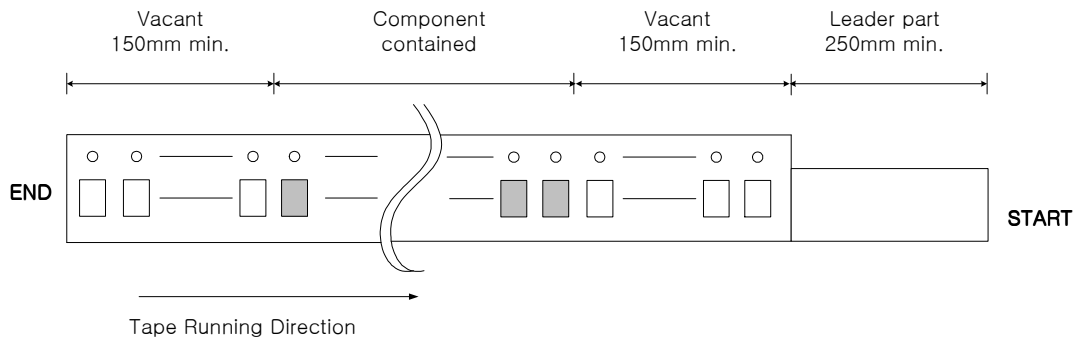
Packing Specification

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

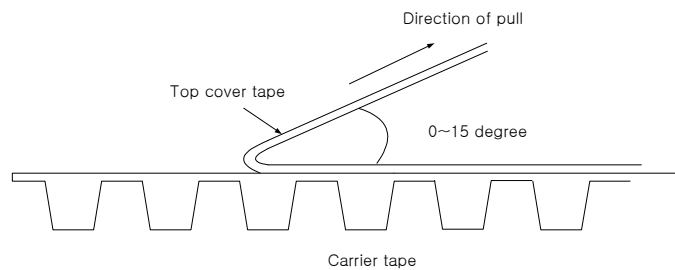


2. Tensile strength of carrier tape

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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