

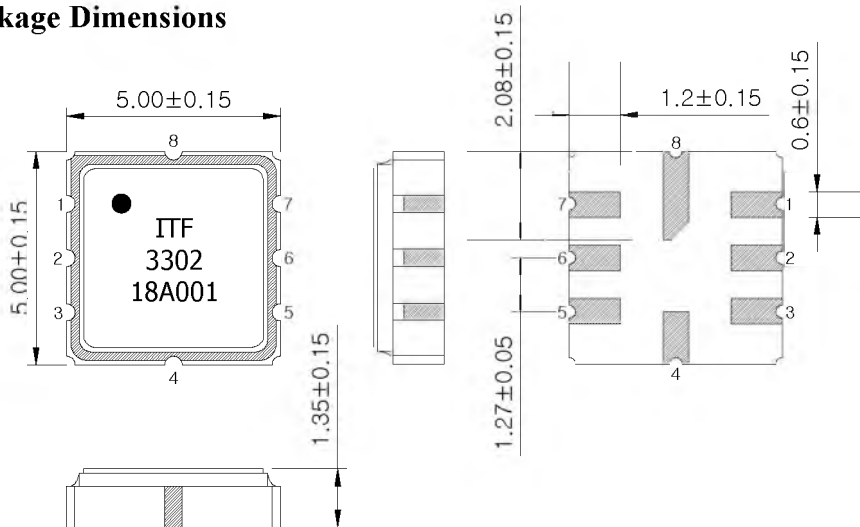
SAW Bandpass Filter F3302



Features

- RF bandpass filter
- Usable bandwidth 5.0 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 : 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

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

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	25	60
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	-	-

Electrostatics Sensitive Device (ESD)

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Specifications

$F_c = 330.0 \text{ MHz}$

		Minimum	Typical	Maximum
Center Frequency (F_c)	MHz	-	330	-
Insertion Loss ($F_c \pm 2.5 \text{ MHz}$)	dB	-	2.2	3.0
Amplitude Ripple ($F_c \pm 2.5 \text{ MHz}$)	dB	-	0.8	1.5
VSWR ($F_c \pm 2.5 \text{ MHz}$)		-	1.8	2.2
1dB Bandwidth	MHz	8	8.4	9
3dB Bandwidth	MHz	9	9.3	10
Absolute Attenuation				
D.C. $\sim 310.0 \text{ MHz}$	dB	40	50	-
$330.0 \text{ MHz} \pm 14.0 \text{ MHz}$		40	50	-
$350.0 \text{ MHz} \sim 800.0 \text{ MHz}$		40	50	-

Notes :

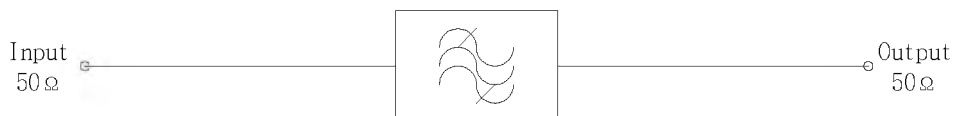
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

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Matching Schematic

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



Marking Configuration

1)
●
ITF 2)
3302 3)
18A001 4)

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

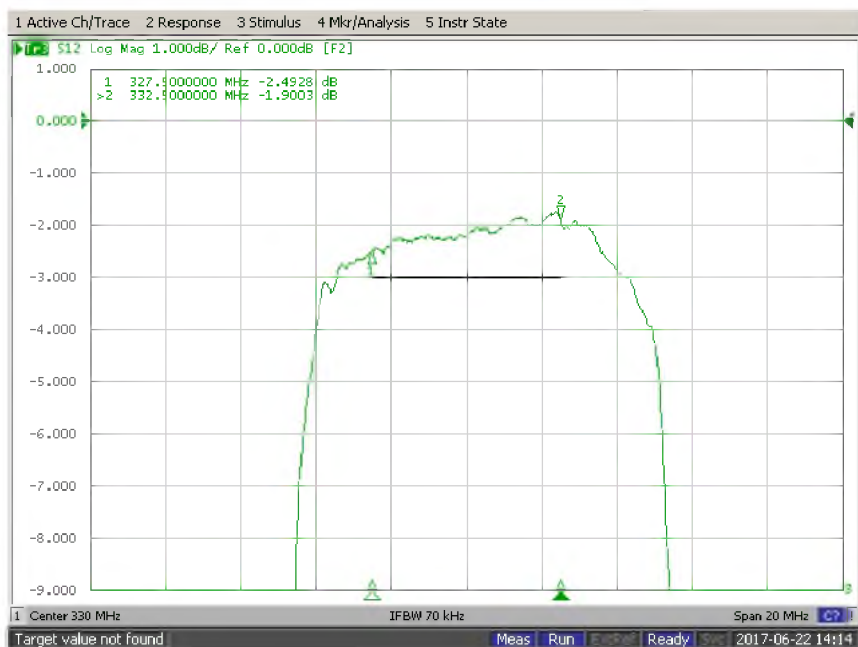
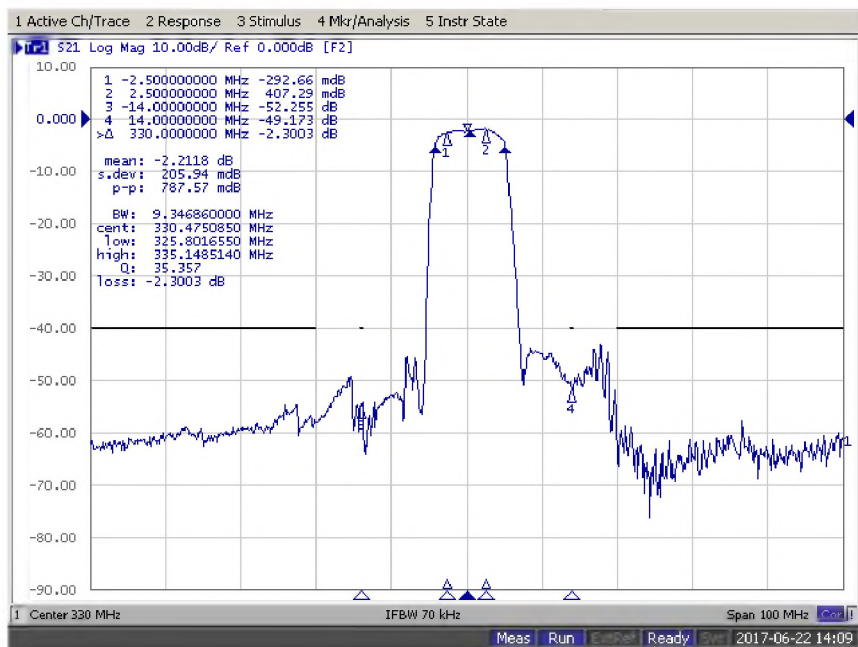
4) Lot Number

* Ink or Laser Marking available

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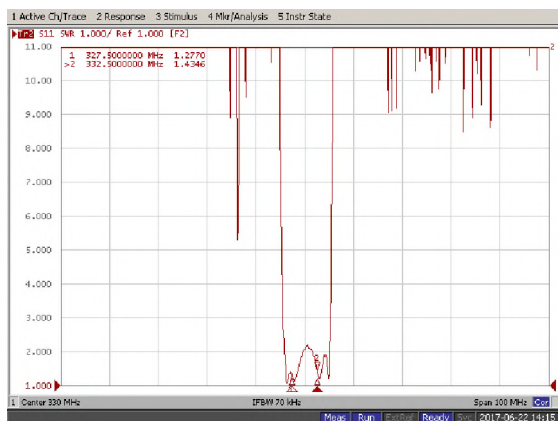
Typical Performance (at 25°C)



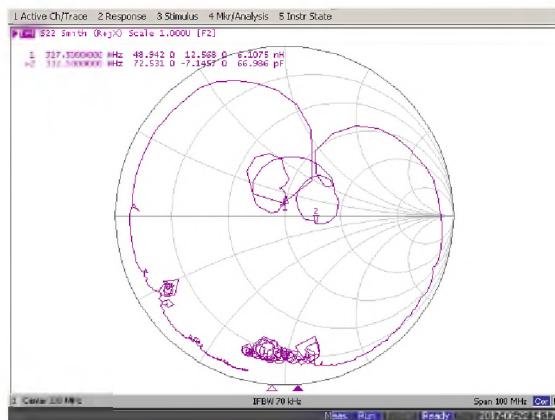
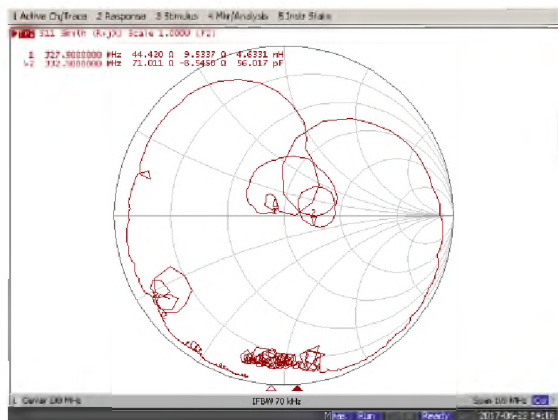
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Input / Output VSWR Charts



Input / Output Smith Charts

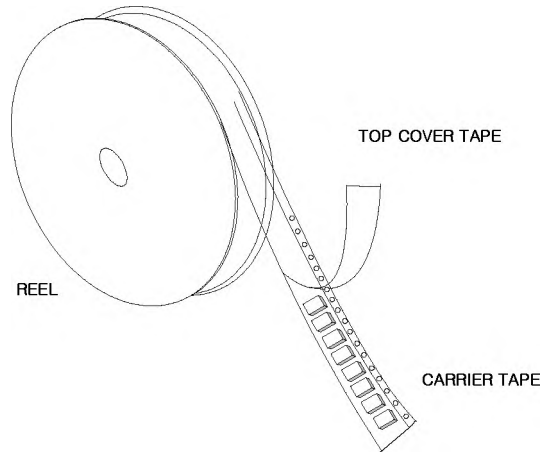


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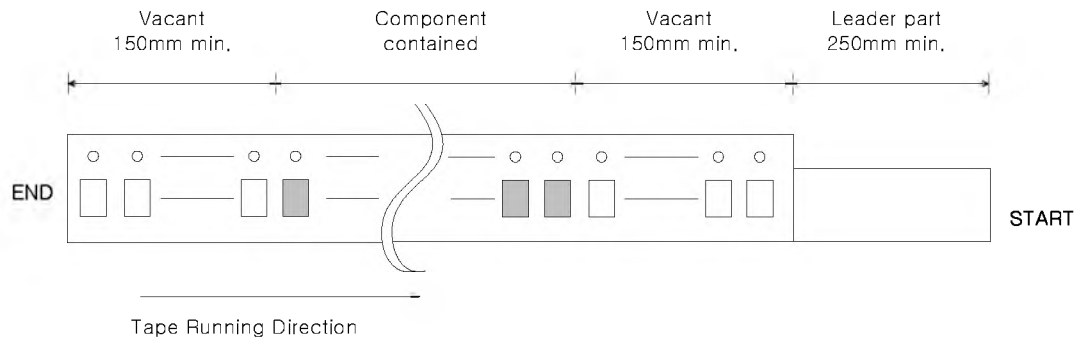
Packing Specification

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

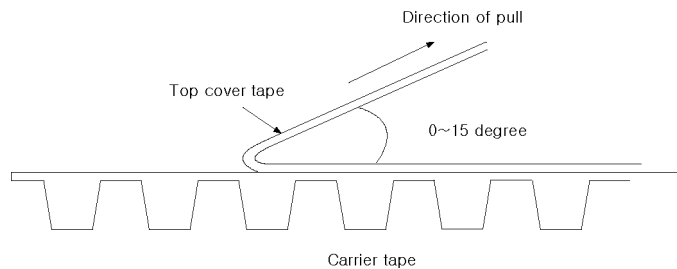
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

3) force : 20~70g



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

Diagram illustrating a magnetic tape with four frames. Each frame contains the text "ITF 3302 18A001" and a black dot. An arrow below the tape indicates the "Tape Running Direction" from left to right.

Technical drawing of a circular mechanical part. The drawing includes a top view (left) and a side view (right). The top view shows a circular part with a diameter of 180. It features three rectangular slots, each with a width of 30 and a height of 17. The central feature is a circular hole with a diameter of 10.5. The side view shows the part's profile, indicating a thickness of 2 and a central hole with a diameter of 10.5. The angle between the slots is 120°.