

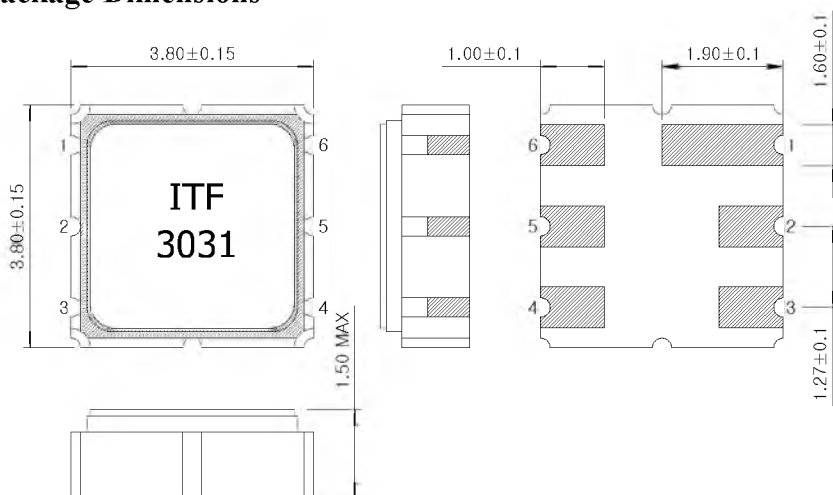
SAW Bandpass Filter F3031



Features

- RF bandpass filter
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package
- 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

2	Input
5	Output
1, 3, 4, 6	Case ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	$^{\circ}\text{C}$	-40	25	85
Storage Temperature Range	$^{\circ}\text{C}$	-40	25	85
Power Handling Capability	dBm	-	-	0

Electrostatics Sensitive Device (ESD)

SAW Bandpass Filter F3031



Specifications

$F_c = 303.0\text{MHz}$

		Minimum	Typical	Maximum
Center Frequency (F_c)	MHz	-	303.0	-
Insertion Loss ($F_c \pm 2.0$ MHz)	dB	-	2.0	3.0
Amplitude Ripple ($F_c \pm 2.0$ MHz)	dB	-	1.0	1.5
VSWR ($F_c \pm 2.0$ MHz)		-	1.5	2.0
Relative Attenuation 0.3 MHz $\sim F_c - 15$ MHz $F_c + 25$ MHz ~ 800 MHz	dB	40 40	50 45	-
Input/Output Impedance	Ohms	-	50	-

Notes :

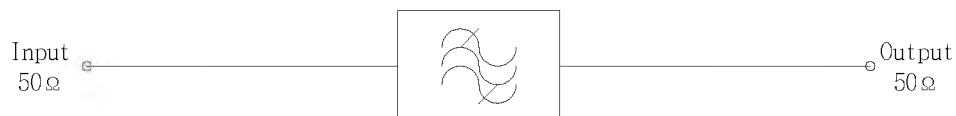
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
- 3) All attenuation measurements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

SAW Bandpass Filter F3031



Matching Schematic

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



Marking Configuration

ITF¹⁾

3031²⁾

1) Manufacturer name

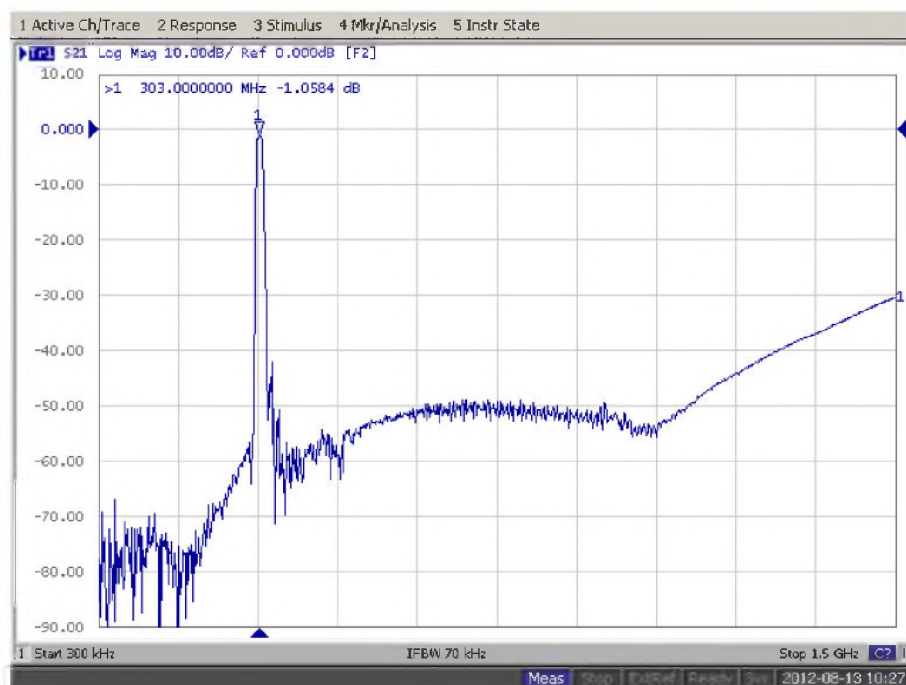
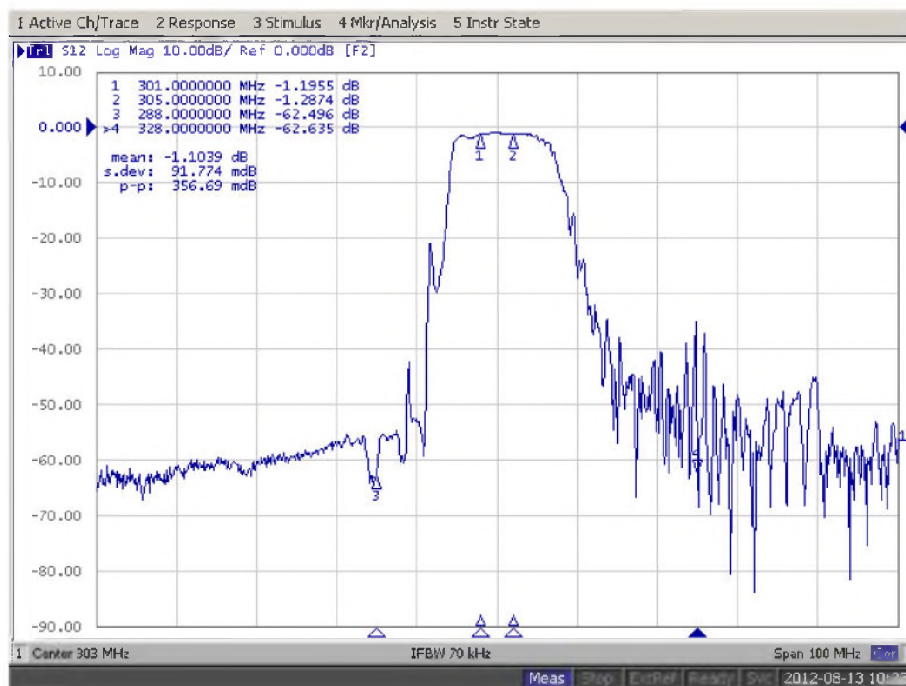
2) Marking Number

* Ink or Laser Marking available

SAW Bandpass Filter F3031



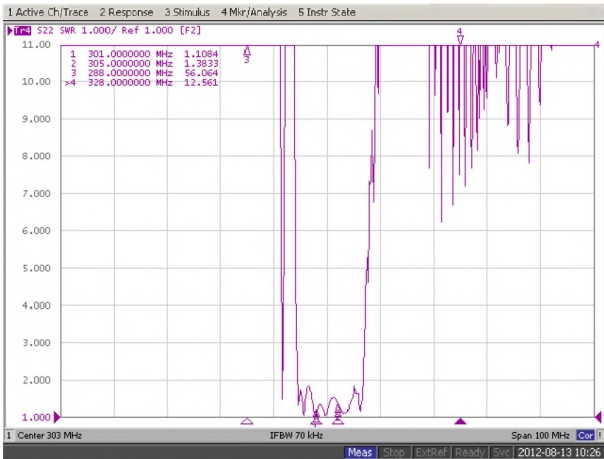
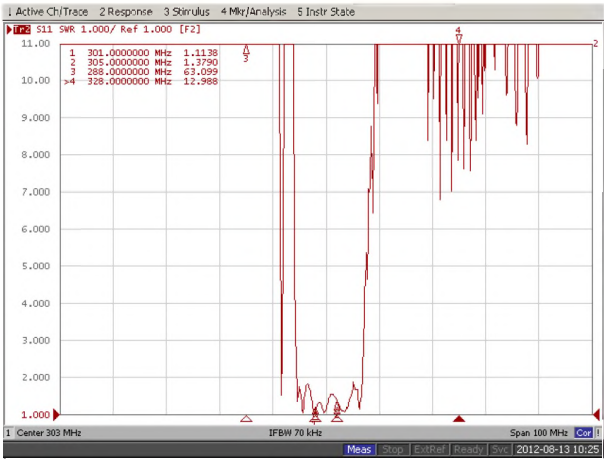
Typical Performance (at 25°C)



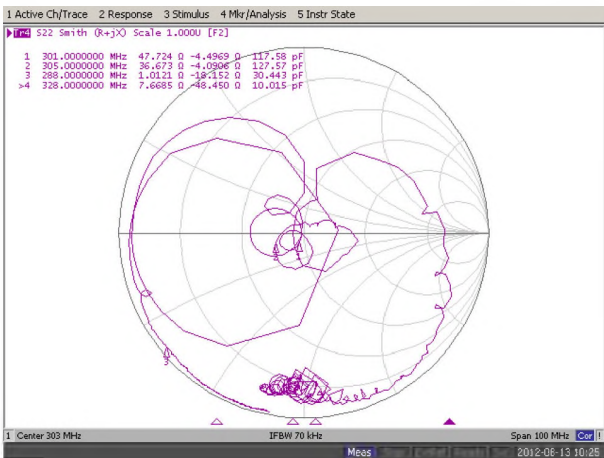
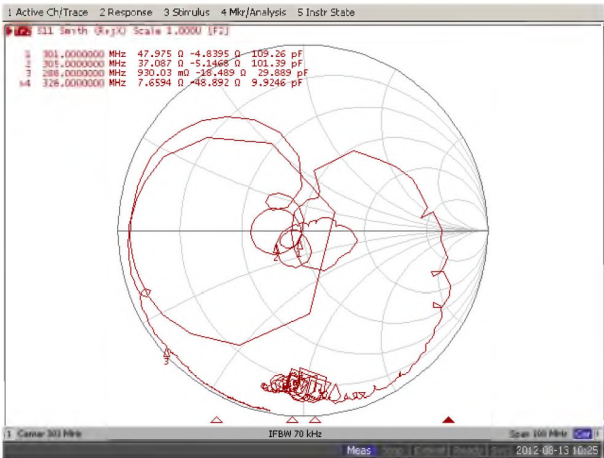
SAW Bandpass Filter F3031



Input / Output VSWR Charts



Input / Output Smith Charts

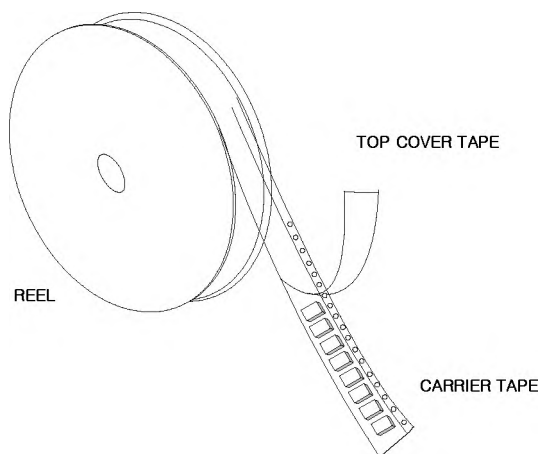


SAW Bandpass Filter F3031



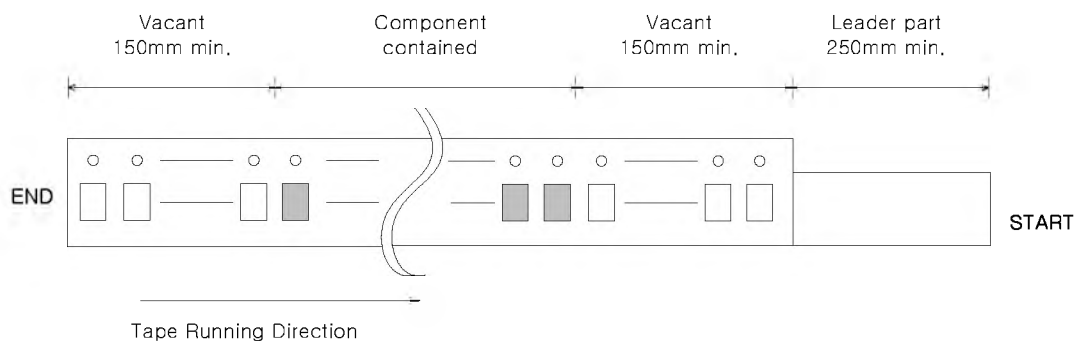
Packing Specification

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

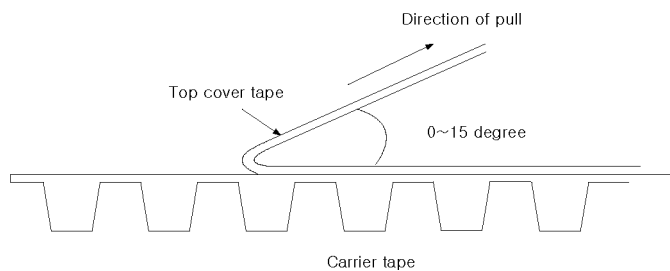
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

2) speed : 300mm/min

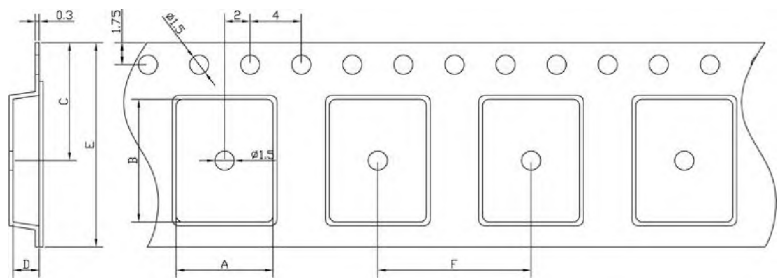
3) force : 20~70g



SAW Bandpass Filter F3031

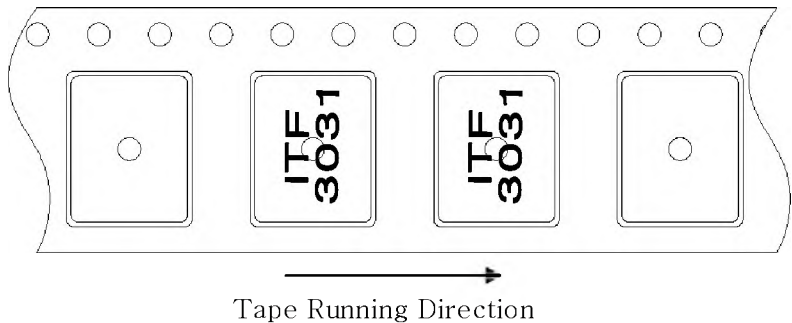


Carrier Tape Dimensions [unit : mm]



A	4.30 ± 0.1
B	4.30 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]

