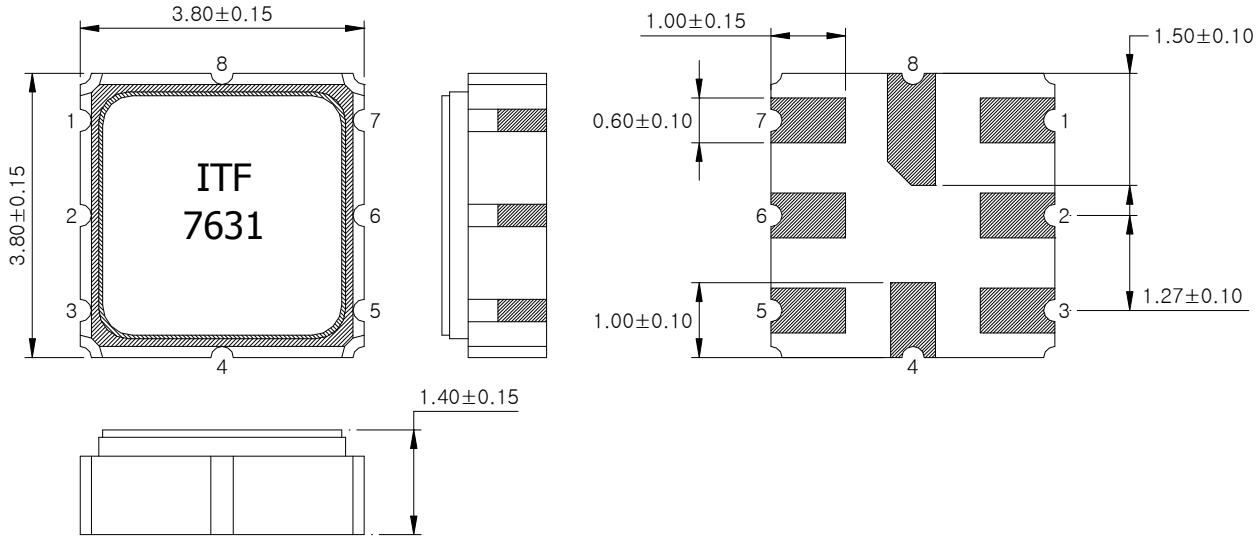
SAW Bandpass Filter F7631

Features

- RF bandpass filter
- High attenuation
- Usable bandwidth 10 MHz
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device Package (3.8 mm × 3.8 mm)
- 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 um, Over a 1.27 ~ 8.89 um
Ni Plating

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

Maximum Ratings

Parameters	**Unit**	**Minimum**	**Typical**	**Maximum**
Operating Temperature Range	℃	10	25	50
Storage Temperature Range	℃	-20	25	85
Power Handling Capability	dBm			5

Electrostatics Sensitive Device (**ESD**)

Specifications

Fc = 763.0 MHz

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	763.0	-	MHz
Insertion Loss (In Fc +/- 5.0 MHz)	-	1.3	3.0	dB
Amplitude Ripple (In Fc +/- 5.0 MHz)	-	0.3	1.5	dB
VSWR (In Fc +/- 5.0 MHz)	-	1.5	2.0	
Attenuation (Reference level from 0 dB) 10 MHz ~ 708.0 MHz 788.0 MHz ~ 798.0 MHz 873.0 MHz ~ 973.0 MHz 1200.0 MHz ~ 2000.0 MHz	 30 52 40 25	 41 61 43 45	 - - - -	dB
Input / Output Impedance		50		Ohms

Notes :

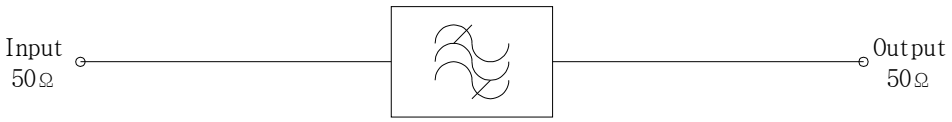
1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.

2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

3) All attenuation measurements were measured from 0 dB (Reference level)

Matching Schematic

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



Marking Configuration

ITF [1)]

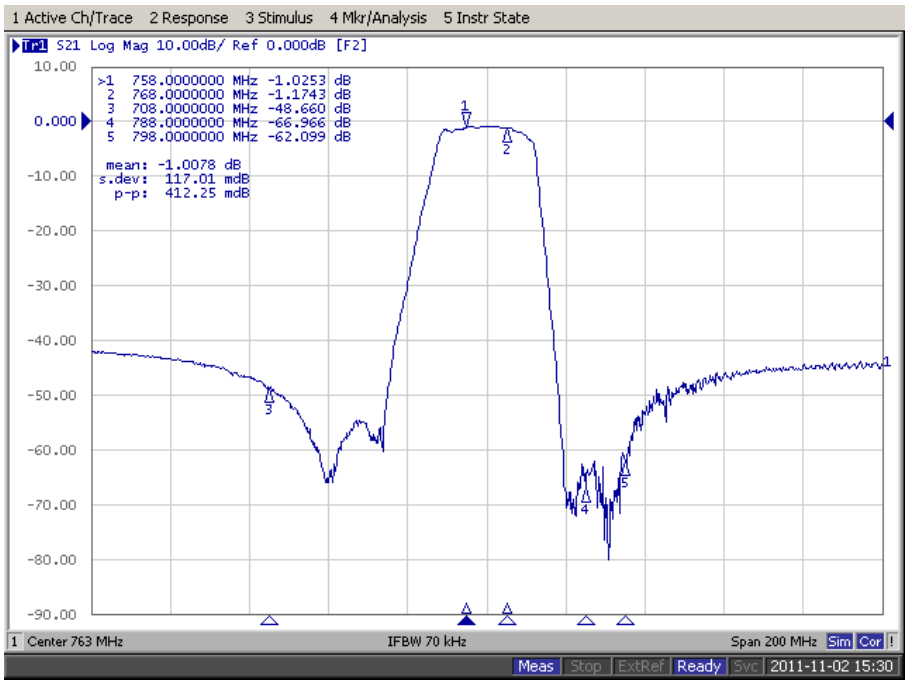
7602 [2)]

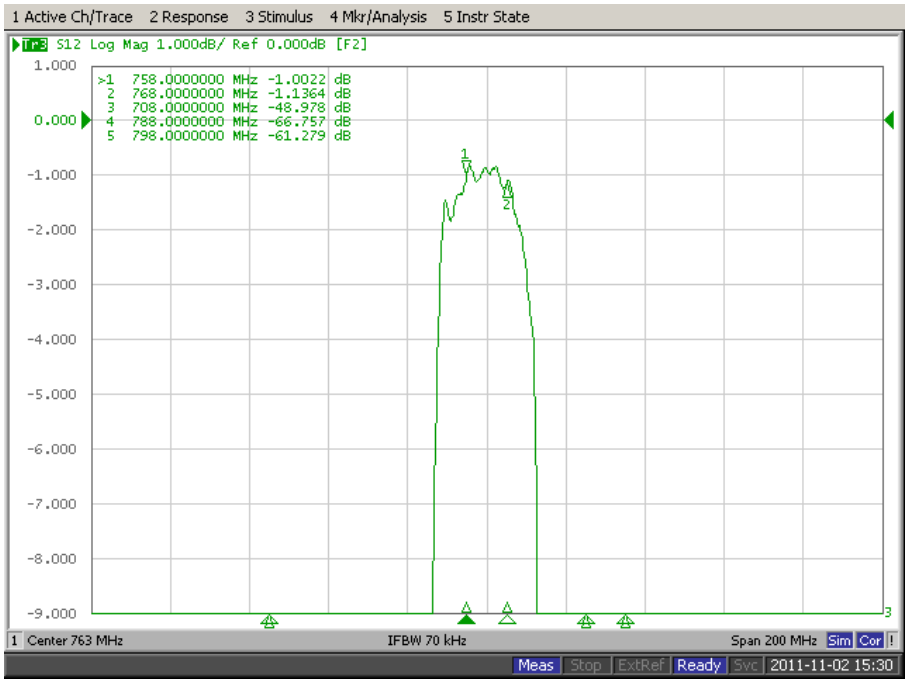
1) Manufacturer name

2) Marking Number

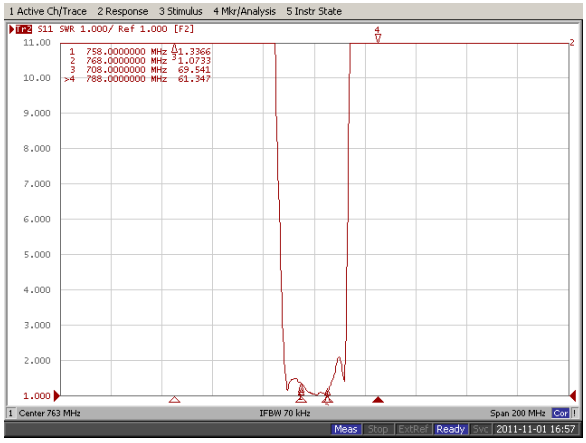
* Ink or Laser Marking available

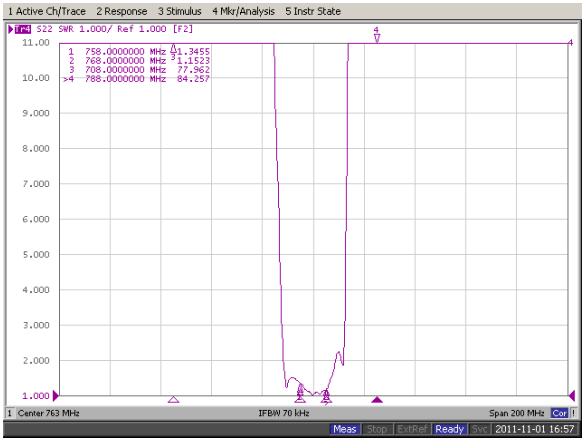
Typical Performance (at 25℃)



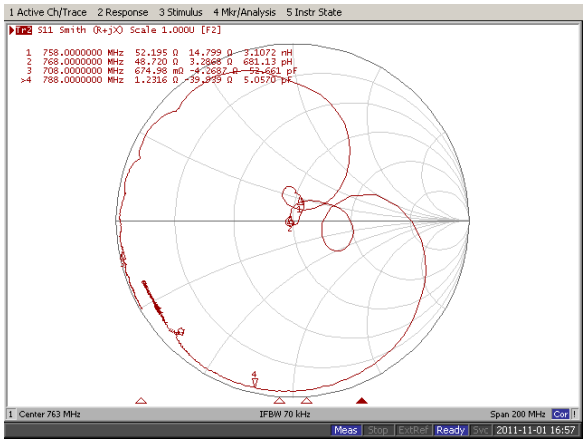


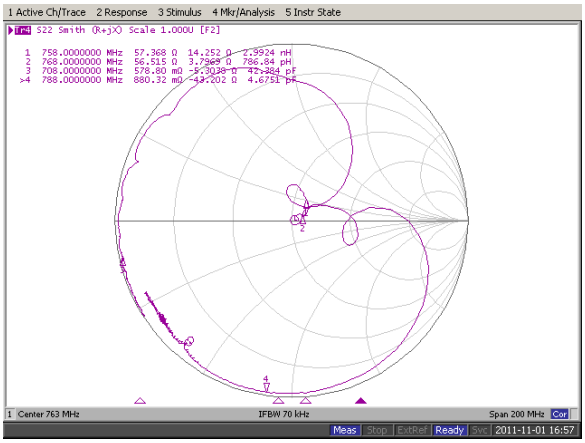
Input / Output VSWR Charts





Input / Output Smith Charts

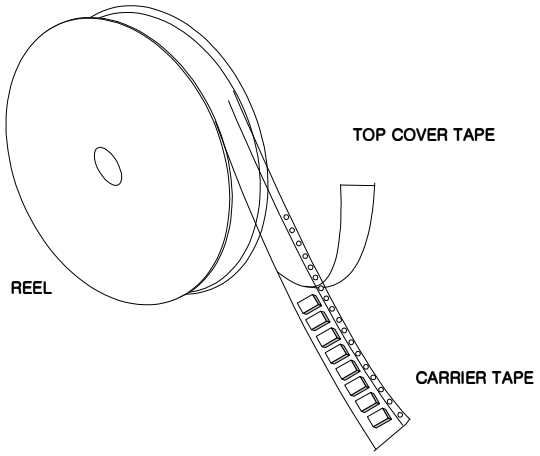




Packing Specification

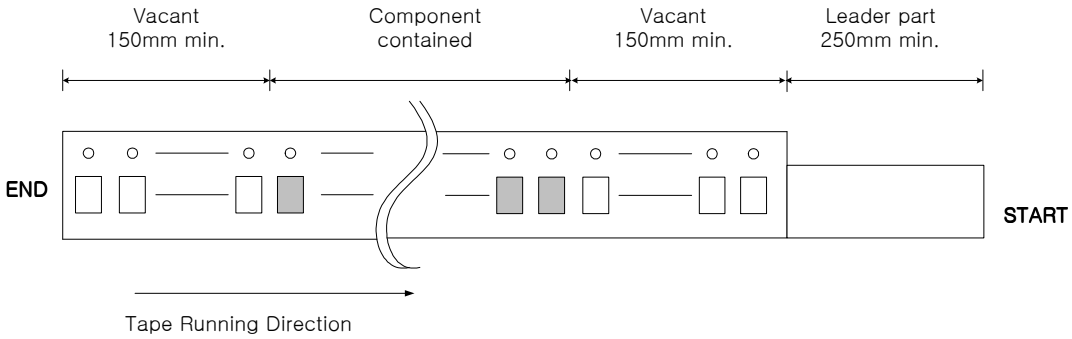
1. Reeling Quantity : 3000 pcs / 13” reel (or 1000 pcs / 7” reel)

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

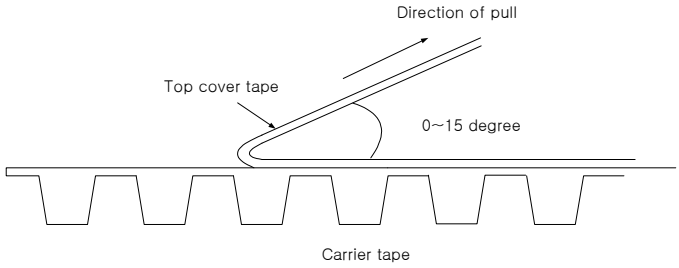
4.4N/mm width

3. Top cover tape adhesion

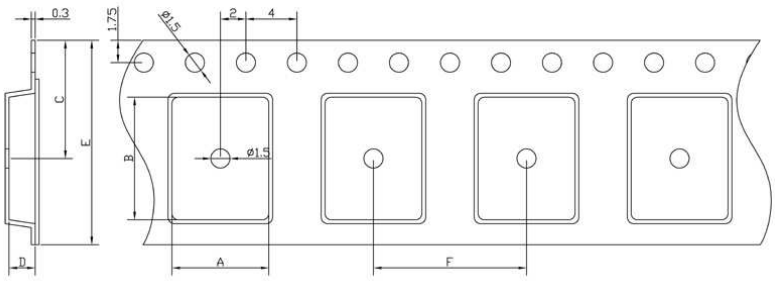
1) pull off angle : 0~15°

2) speed : 300mm/min

3) force : 20~70g

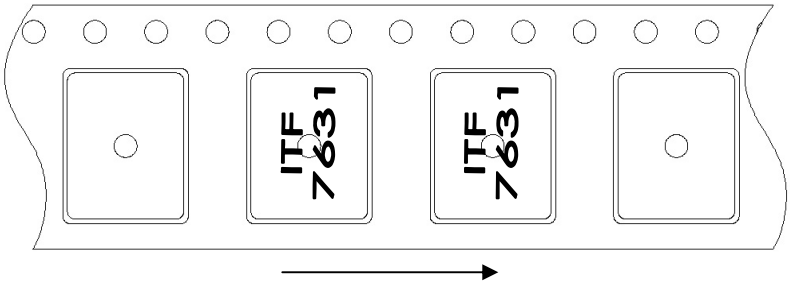


Carrier Tape Dimensions [unit : mm]



A	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



Tape Running Direction

Reel Dimensions [unit : mm]