

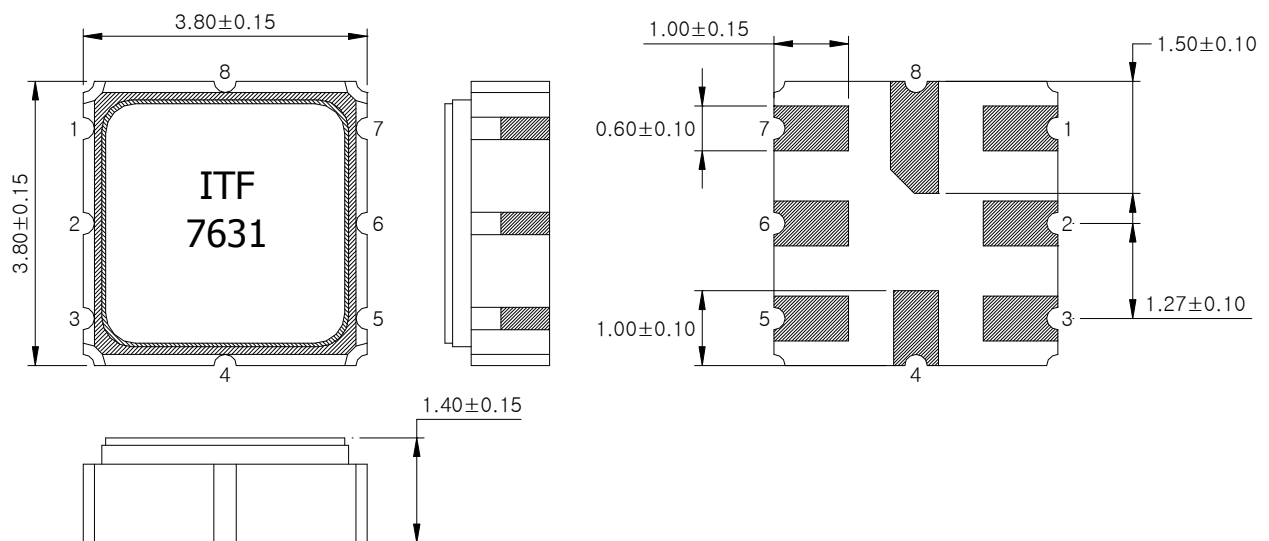
SAW Bandpass Filter F7631



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 : Al₂O₃ 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)

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F7631	
		Rev. Date	2011-11-01	
		Rev.	NCMK01-AS01	1/7

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Specifications

$F_c = 763.0 \text{ MHz}$

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	763.0	-	MHz
Insertion Loss (In $F_c \pm 5.0 \text{ MHz}$)	-	1.3	3.0	dB
Amplitude Ripple (In $F_c \pm 5.0 \text{ MHz}$)	-	0.3	1.5	dB
VSWR (In $F_c \pm 5.0 \text{ MHz}$)	-	1.5	2.0	
Attenuation (Reference level from 0 dB)				
10 MHz ~ 708.0 MHz	30	41	-	dB
788.0 MHz ~ 798.0 MHz	52	61	-	
873.0 MHz ~ 973.0 MHz	40	43	-	
1200.0 MHz ~ 2000.0 MHz	25	45	-	
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)

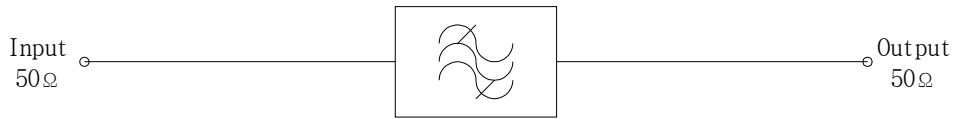
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F7631	
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Matching Schematic

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



Marking Configuration

ITF ¹⁾

7602 ²⁾

1) Manufacturer name

2) Marking Number

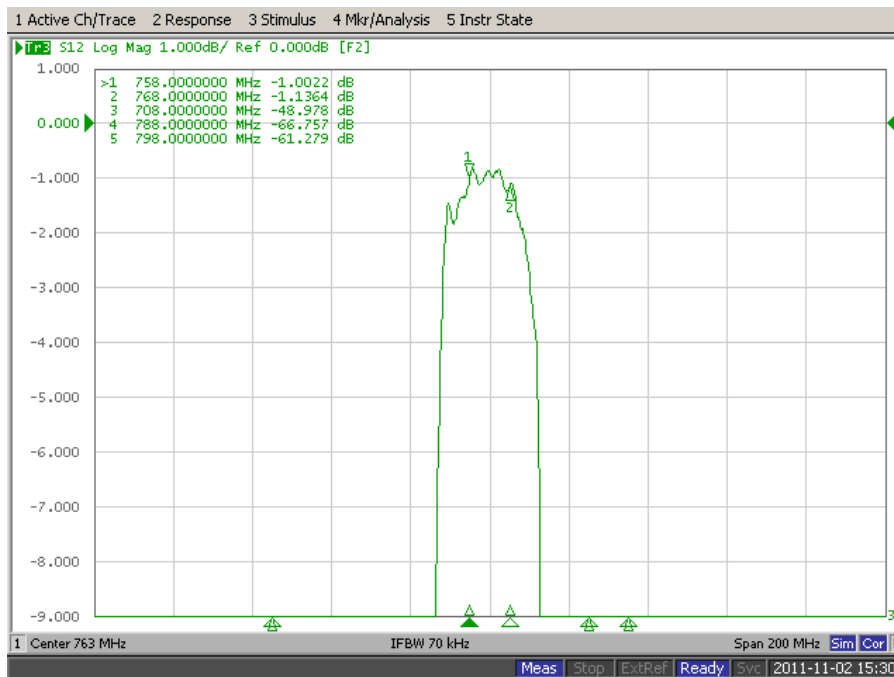
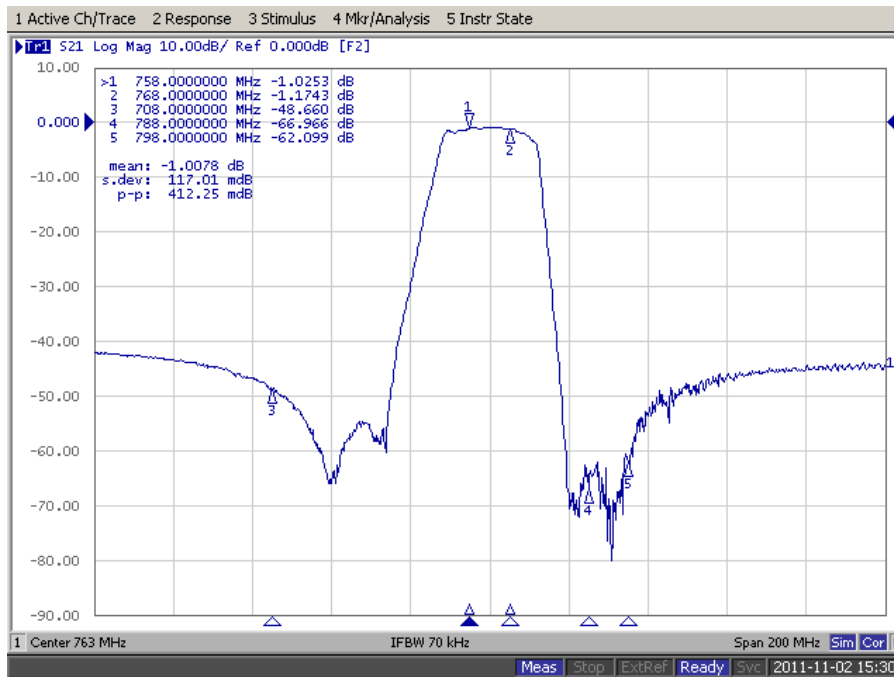
* Ink or Laser Marking available

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Typical Performance (at 25°C)

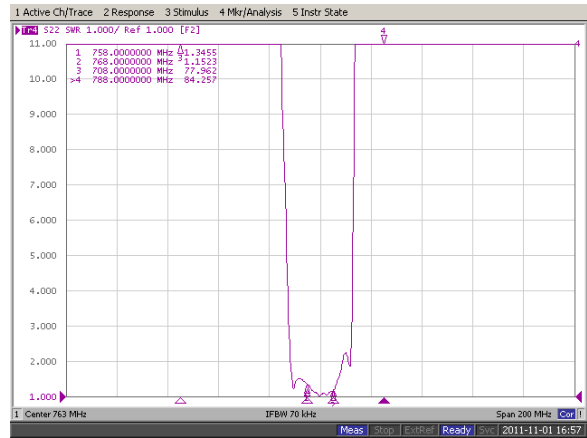
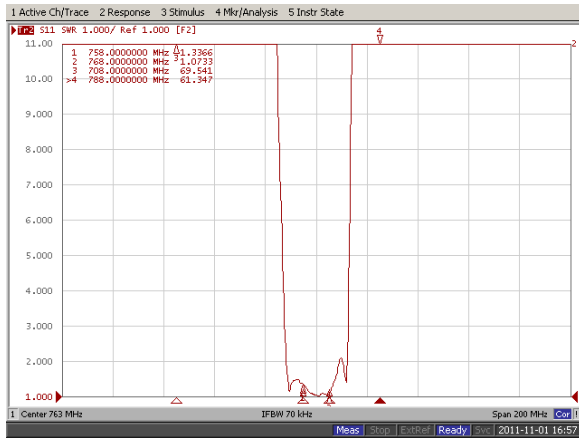


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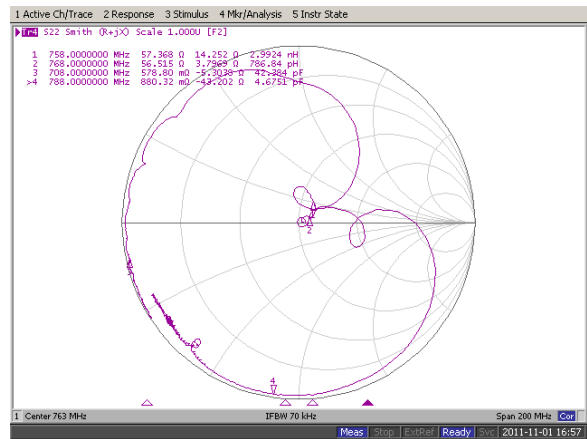
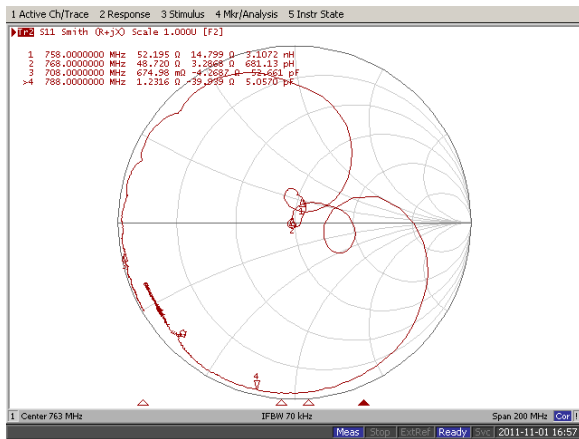
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Input / Output VSWR Charts



Input / Output Smith Charts

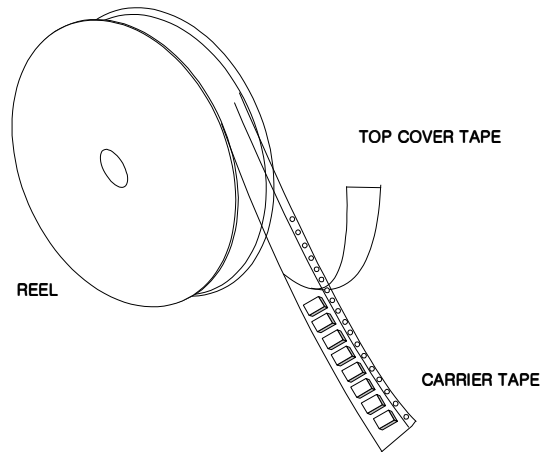


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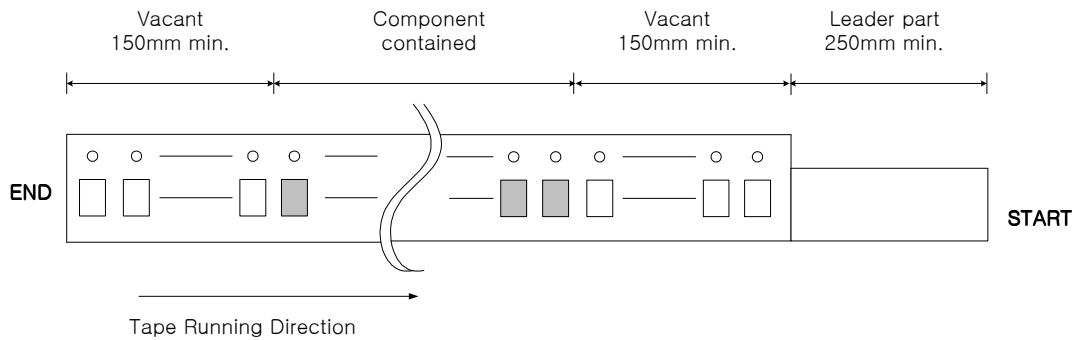
Packing Specification

1. Reeling Quantity : 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

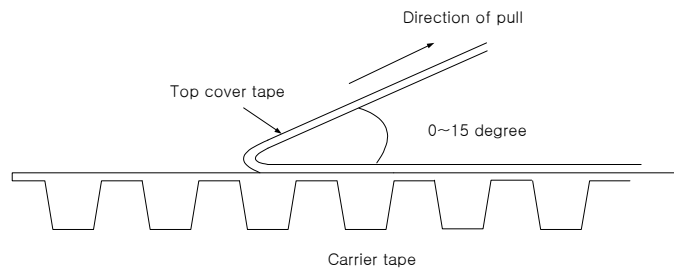


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

- 1) pull off angle : 0~15°
- 2) speed : 300mm/min
- 3) force : 20~70g

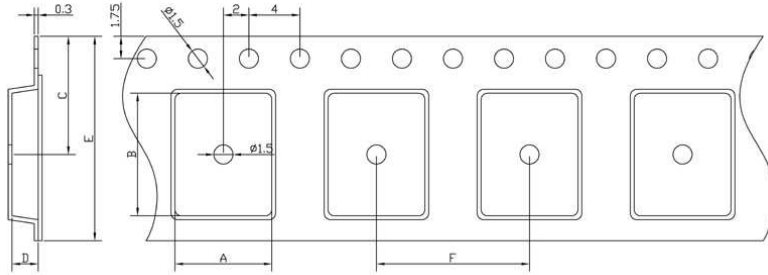


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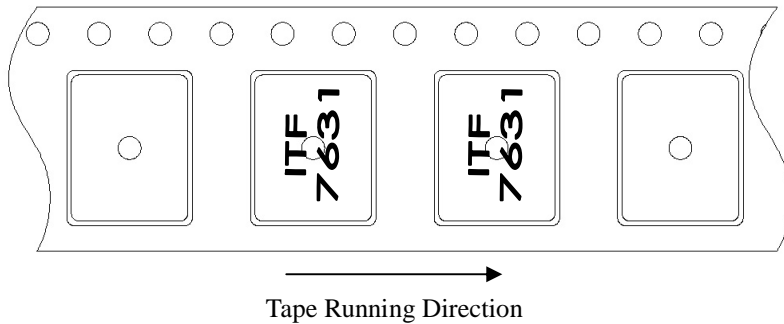


Carrier Tape Dimensions [unit : mm]

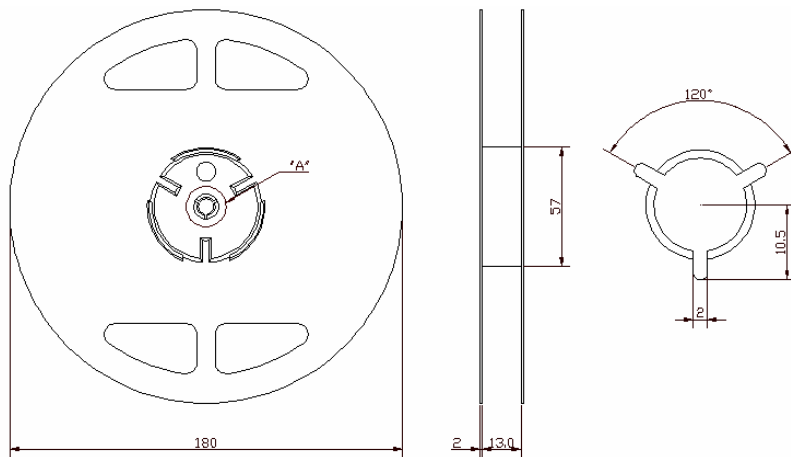



A	4.30 ± 0.1
B	4.30 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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