

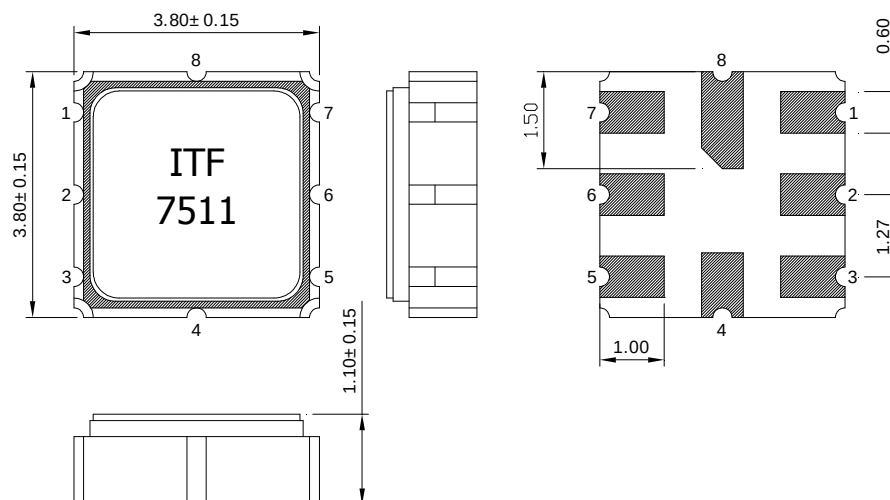
SAW Bandpass Filter F7511



Features

- RF bandpass filter
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device (SMD) Package (3.8 mm * 3.8 mm)
- RoHS Compliant

Package Dimension – SMD 3.8 × 3.8



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	℃	-20	25	70
Storage Temperature Range	℃	-40	25	85
Power Handling Capability	dBm		10	

Electrostatics Sensitive Device (ESD)

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F7511	
		Rev. Date	2011-04-06	
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Specifications

Fc = 751.0 MHz

Terminating source impedance : 50Ω

Terminating load impedance : 50Ω

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	751	-	MHz
Insertion Loss (In Fc +/- 5 MHz)	-	1.4	3.0	dB
Amplitude Ripple (In Fc +/- 5 MHz)	-	0.5	1.5	dBp-p
VSWR (In Fc +/- 5 MHz)	-	1.2	2.0	
Relative Attenuation				
10 ~ 708 MHz	30	41	-	dB
777 ~ 787 MHz	52	61	-	
873 ~ 973 MHz	40	44	-	
Temperature Range (Operational)	-20	25	70	℃
Input RF Power (In Fc +/- 5 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

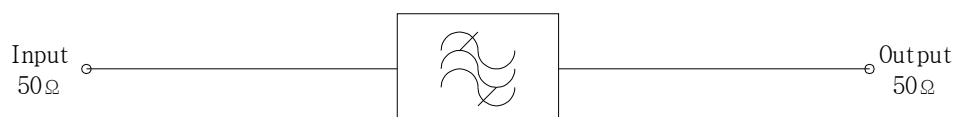
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Matching Schematic

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



Marking Configuration

ITF ¹⁾

7511 ²⁾

1) Manufacturer name

2) Marking Number

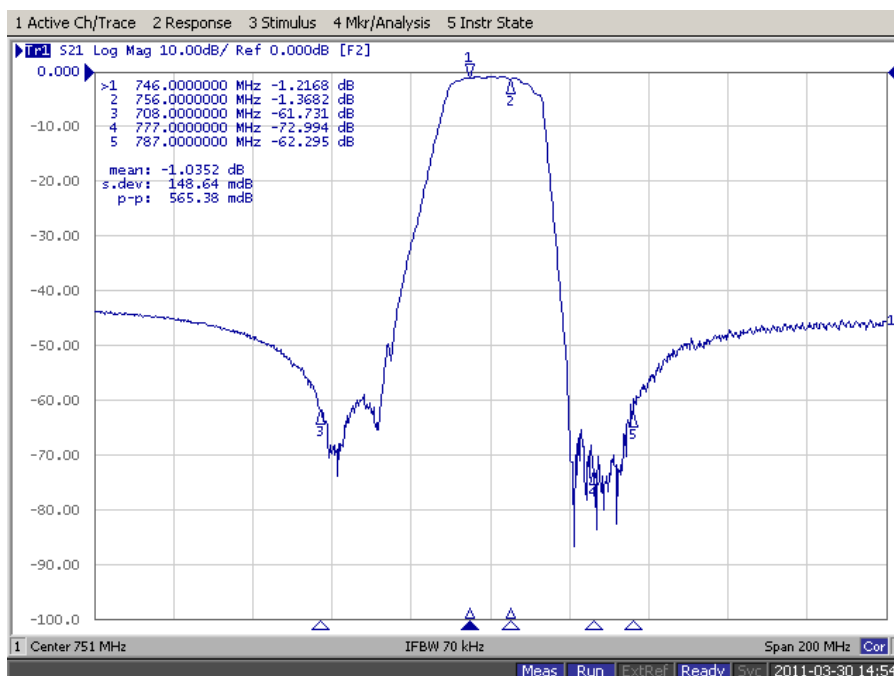
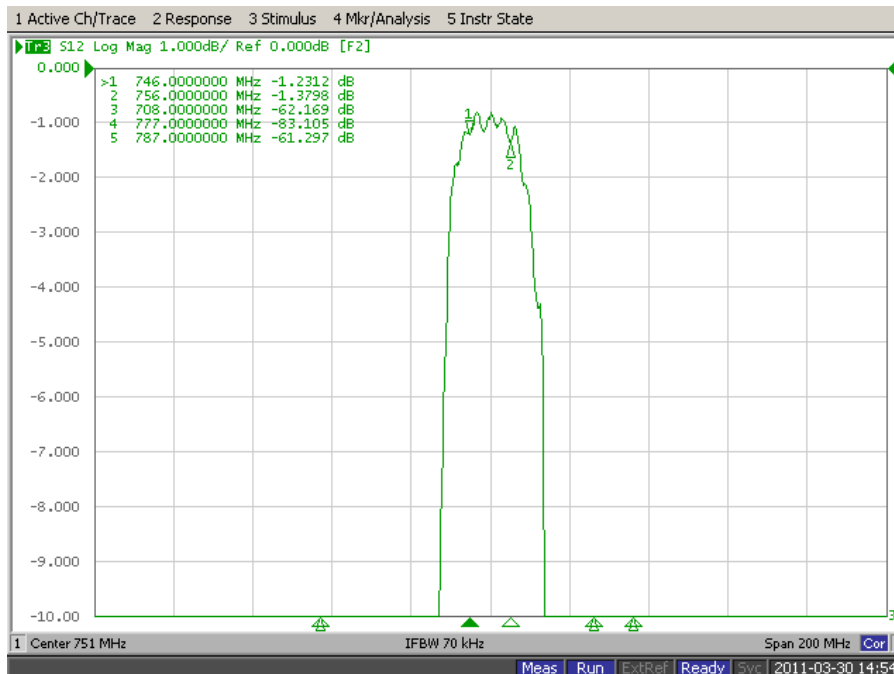
* Ink or Laser Marking available

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Typical Performance (at 25 °C)

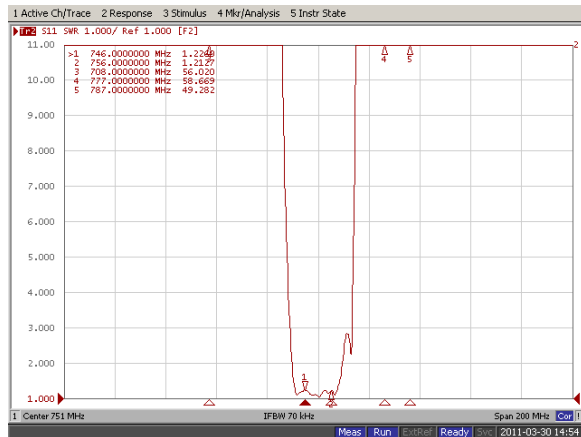
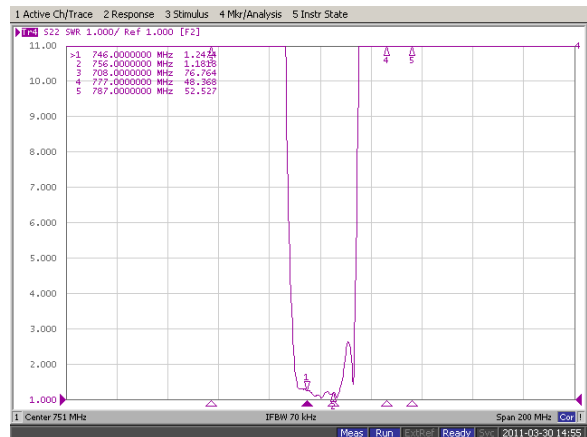


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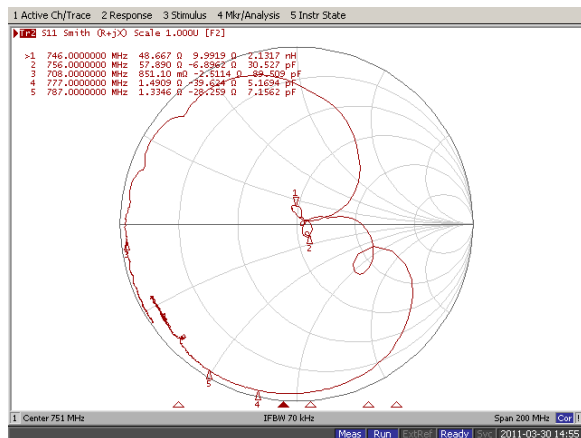
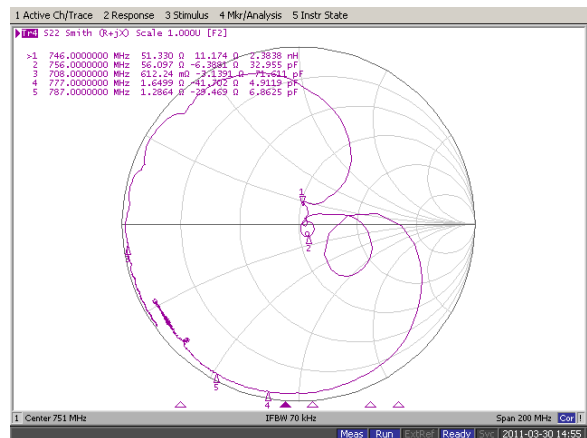
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Input / Output VSWR Charts



Input / Output Smith Charts



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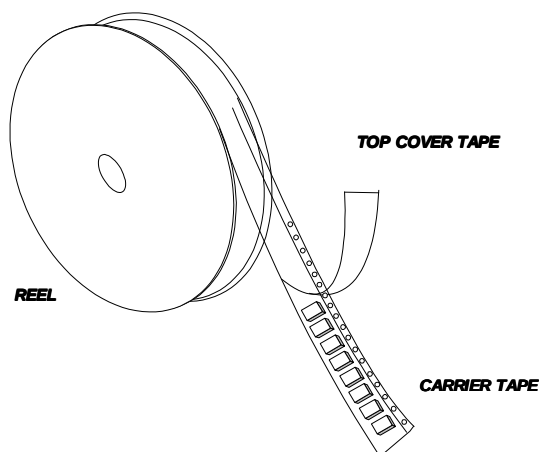
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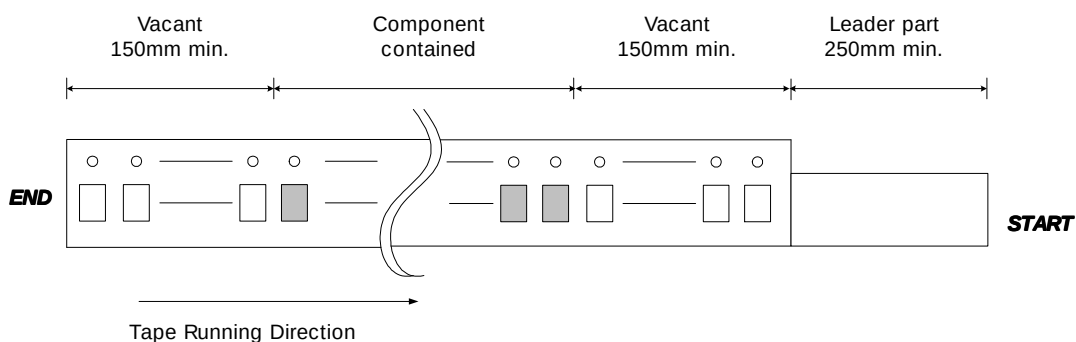
Packing Specification

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

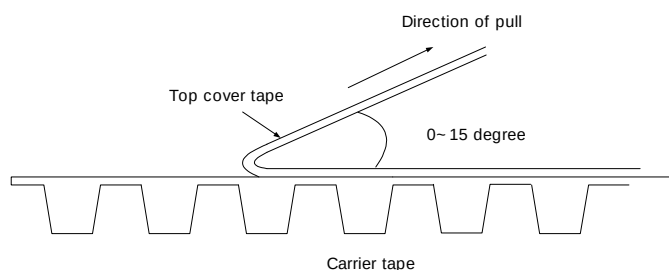


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

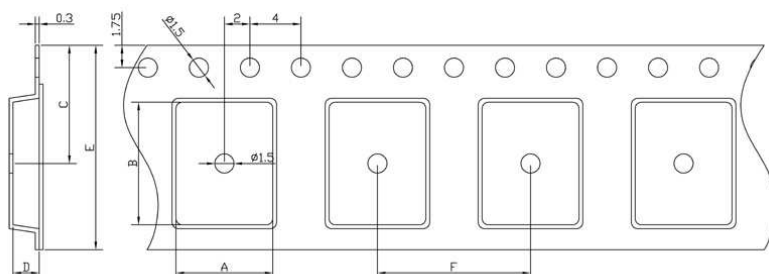


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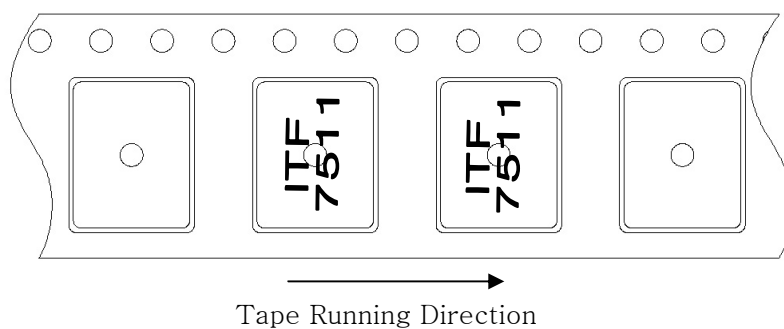


Carrier Tape Dimensions [unit : mm]

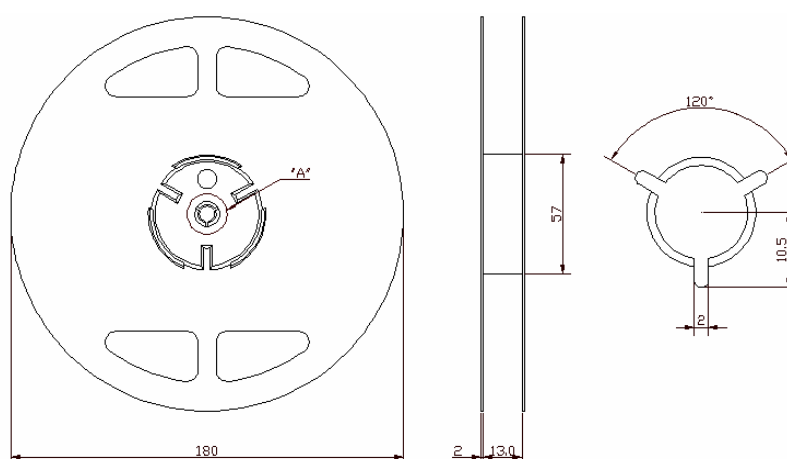


A	4.30 ± 0.1
B	4.30 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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