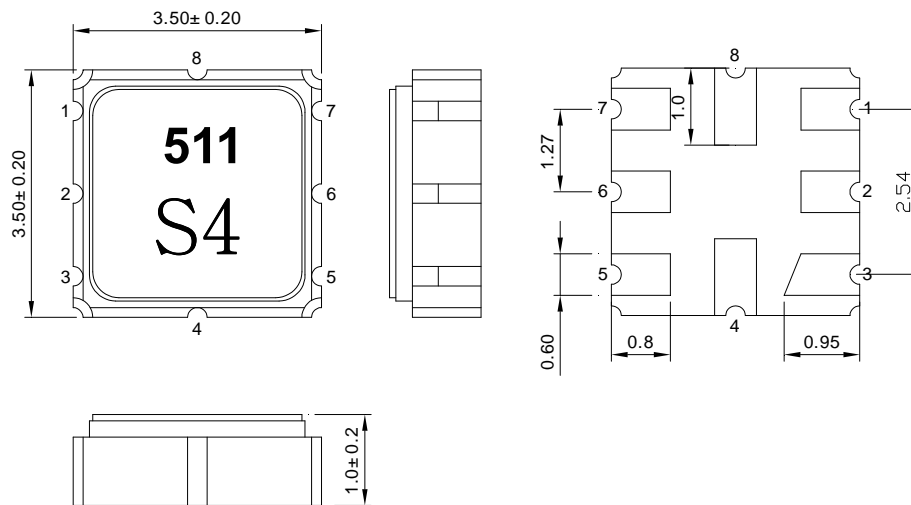


SAW Bandpass Filter F2481

Features

- RF bandpass filter
- Usable bandwidth ± 100 kHz
- High attenuation
- Matching single operation
- Ceramic Surface Mounted Device Package (3.5 mm \times 3.5mm)

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	°C	-30	25	85
Storage Temperature Range	°C	-40	-	95
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.	F2481	
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SAW Bandpass Filter F2481

Preliminary Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	248.45	-	MHz
Insertion Loss (In Fc)	-	3.3	4.0	dB
Amplitude Ripple (In Fc \pm 100 kHz)	-	0.4	0.85	dB
3dB Band Width	260		-	kHz
Group Delay Time Ripple (In Fc \pm 100 kHz)	-	0.4	0.85	us
Relative Attenuation				
In Fc \pm 600 kHz	25	30		dB
In Fc \pm 10.7 MHz	50	65		
In Fc \pm 21.4 MHz	60	65		

Notes :

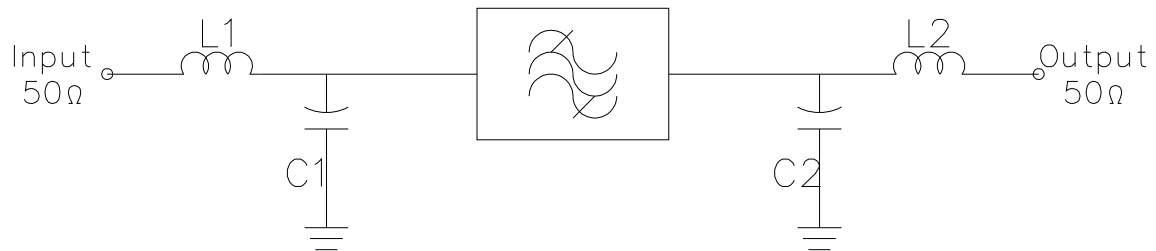
- 1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.
- 2) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances

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SAW Bandpass Filter F2481

Matching Schematic

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



L1 , L2 = 100 nH


C1 , C2 = 2.0 pF

Marking Configuration

- 1) 511
- 2) S4

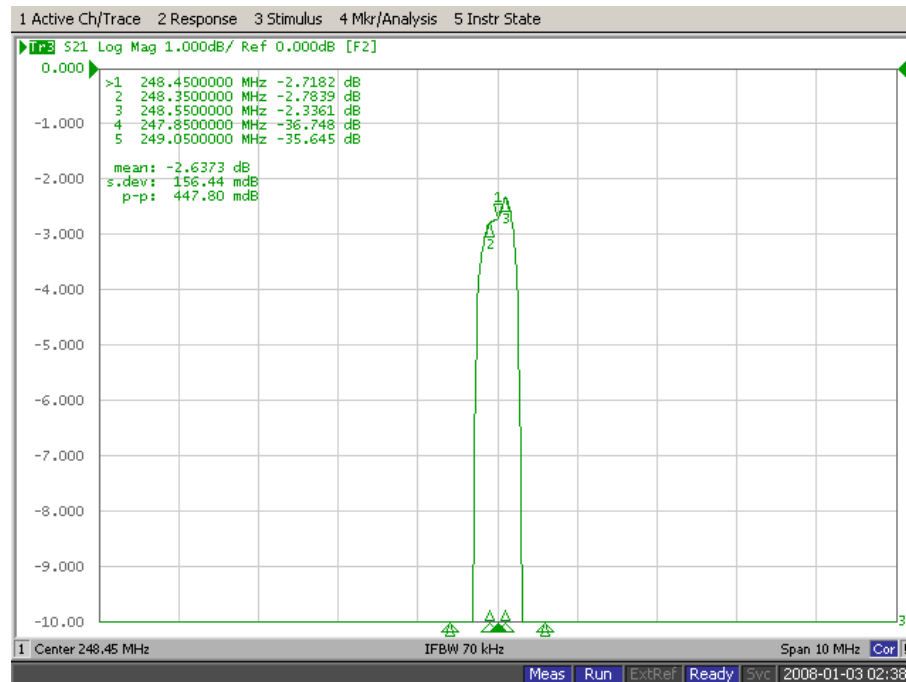
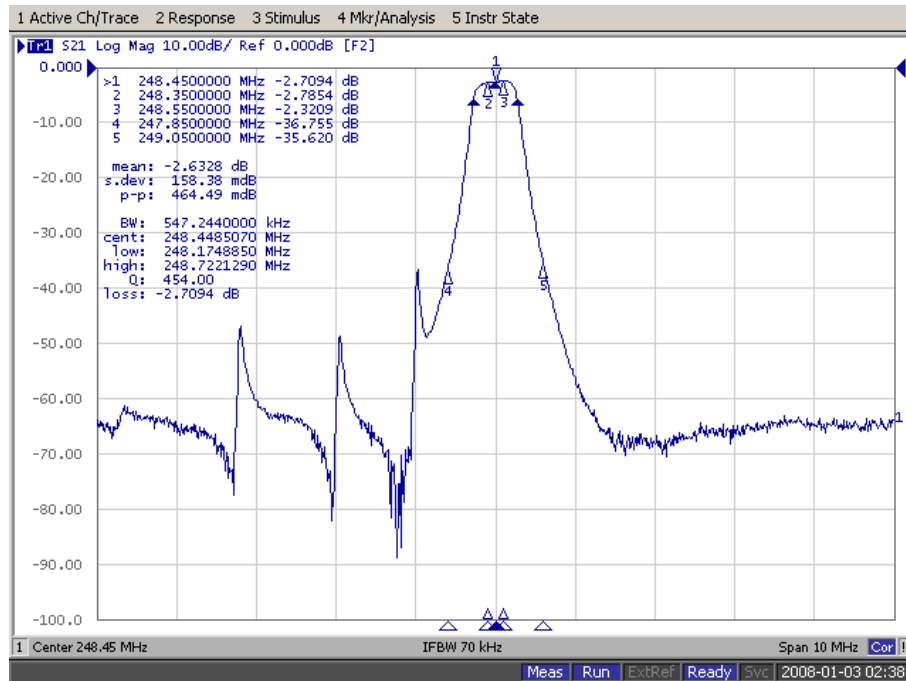
1) Lot Number (Year Month Date)


2) Part Number Marking

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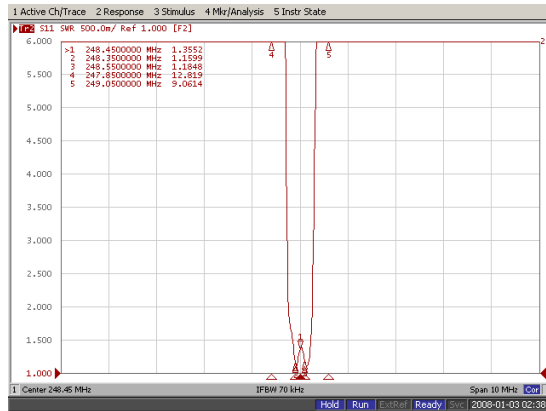
Typical Performance (Ambient temperature +23°C)



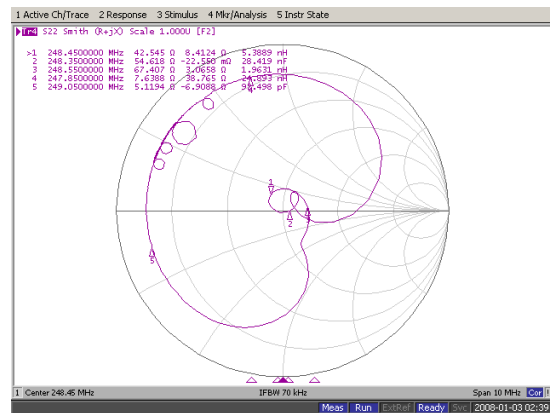
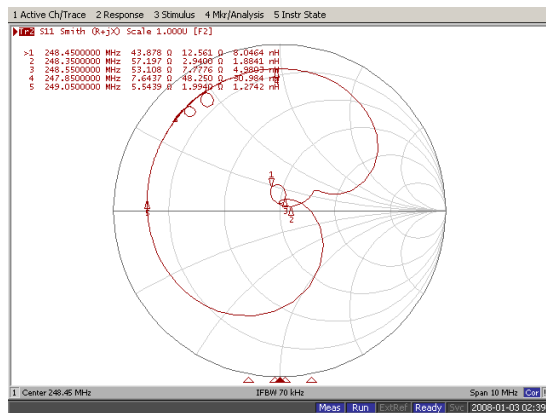
 <p>ITF Integrated Technology Future</p>	<p>ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809</p>	Part No.	F2481	
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Input / Output VSWR Charts



Input / Output Smith Charts

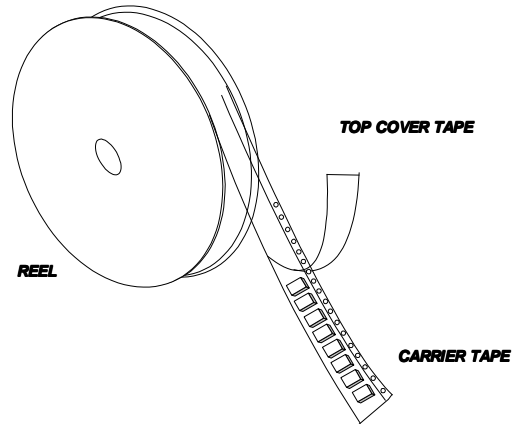


 <p>ITF Integrated Technology Future</p>	<p>ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809</p>	Part No.	F2481	
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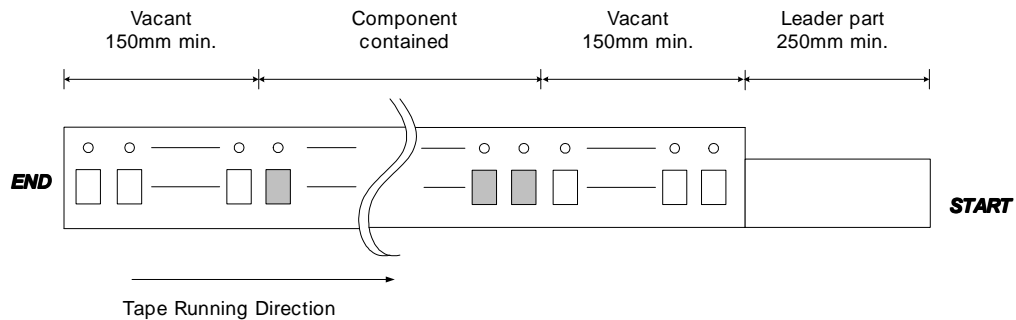
Packing Specification

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

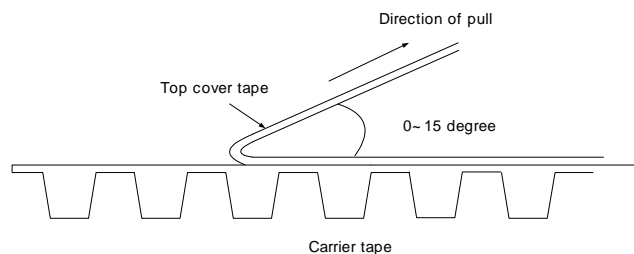



2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

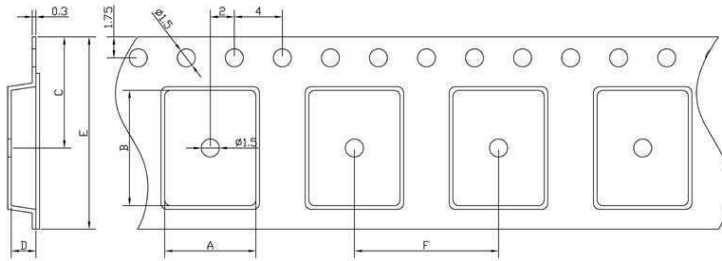
- 1) pull off angle : 0~15°
- 2) speed : 300mm/min
- 3) force : 20~70g



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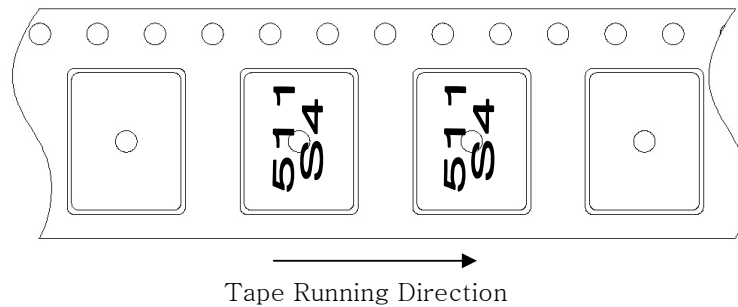
SAW Bandpass Filter F2481

Carrier Tape Dimensions [unit : mm]

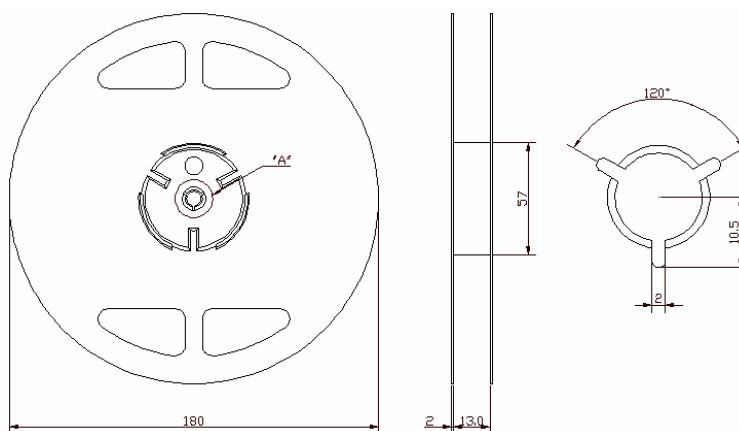



A	4.30 ± 0.1
B	4.30 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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