

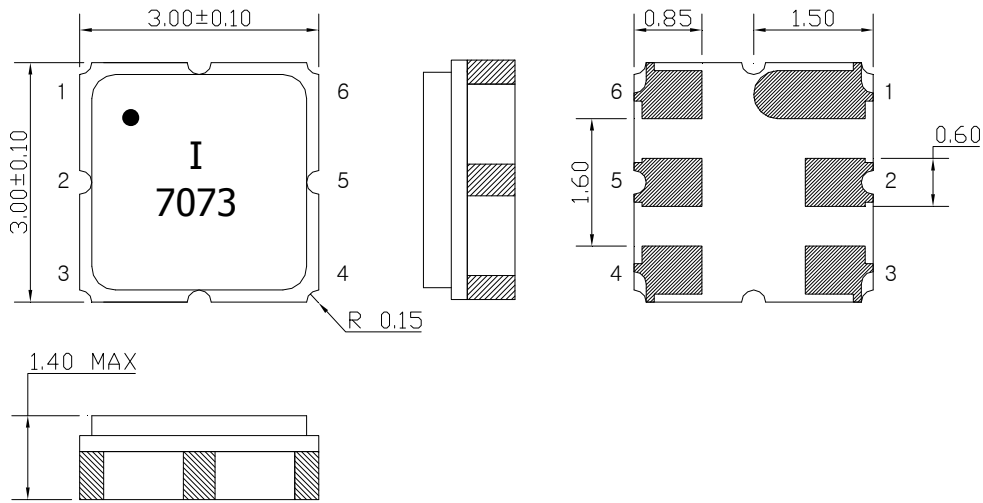
SAW Bandpass Filter F7073



Features

- RF bandpass filter
- No impedance matching require for operation at 50 Ω
- Ceramic Surface Mounted Device Package (3.0 mm × 3.0 mm)
- Single-ended Operation
- RoHS compliant

Package Dimensions



Dimensions shown are nominal in millimeters

Body : Al₂O₃ Ceramic

Lid : Kovar, Ni Plated

Terminations : Au plating 0.3 ~ 1.0 μm, Over a 1.27 ~ 8.89 μm
Ni Plating


Pin Configurations

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

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	25	50
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	-	15

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.	F7073	
		Rev. Date	2017-09-12	
		Rev.	AS01	1/7

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Specifications

$F_c = 707.0 \text{ MHz}$

	Minimum	Typical	Maximum	Unit
Center Frequency (F_c)	-	707.0	-	MHz
Insertion Loss (698 ~ 716 MHz)	-	2.0	2.8	dB
Amplitude Ripple (698 ~ 716 MHz)	-	1.2	1.5	dB
Return Loss (698 ~ 716 MHz)	10	12	-	dB
Attenuation				
20 ~ 450 MHz	28	30	-	dB
558 ~ 576 MHz	30	32	-	
628 ~ 646 MHz	25	32	-	
@ 722 MHz	10	15	-	
728 ~ 746 MHz	30	42	-	
768 ~ 786 MHz	30	34	-	
1000 ~ 3000 MHz	10	13	-	
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 are measured relative to insertion loss

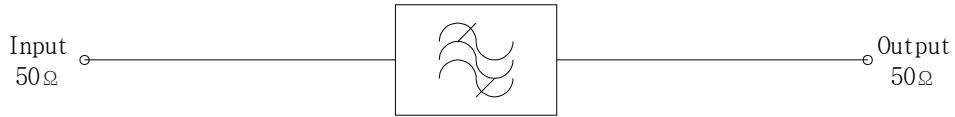
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Matching Schematic

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



Marking Configuration

●¹⁾
I²⁾
7073³⁾

- 1) Pad Number 1 Index
- 2) Manufacturer name
- 3) Marking Number

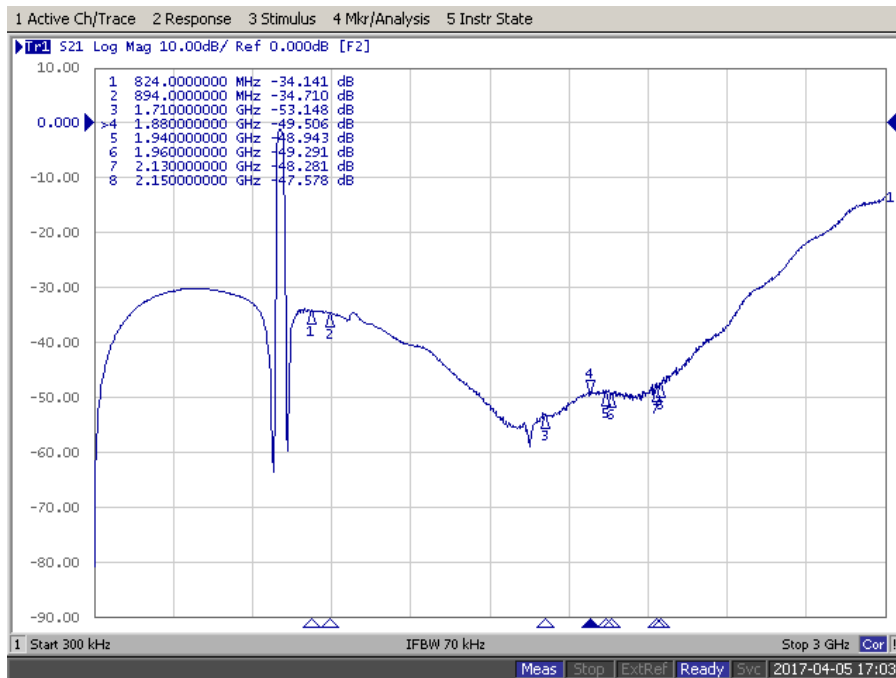
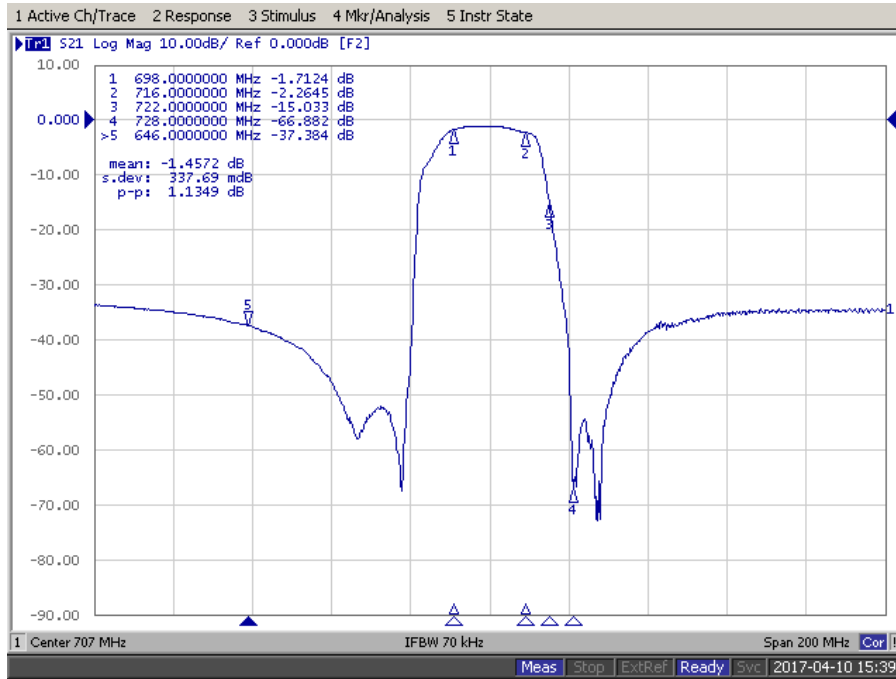
* Ink or Laser Marking available


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Typical Performance (at 25°C)

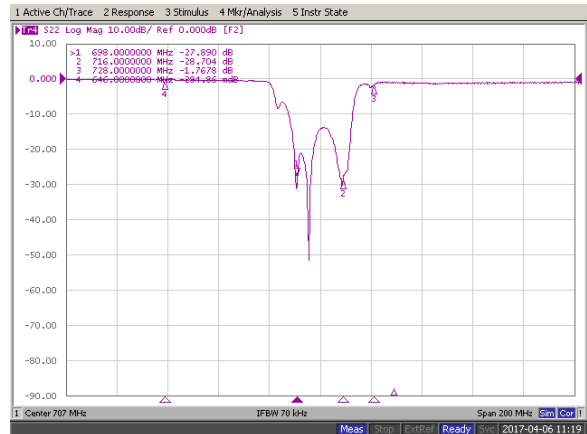
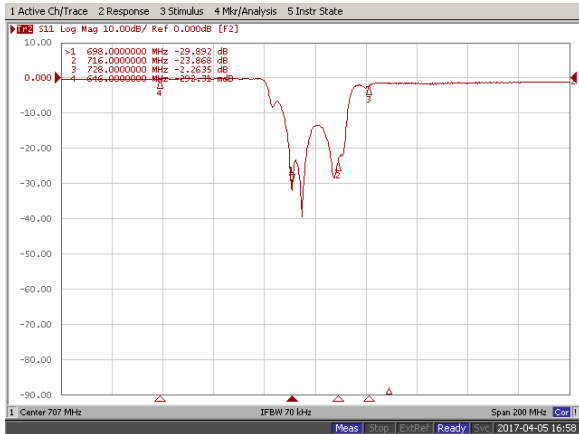


 <p>Integrated Technology Future</p>	<p>ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809</p>	Part No.	F7073	
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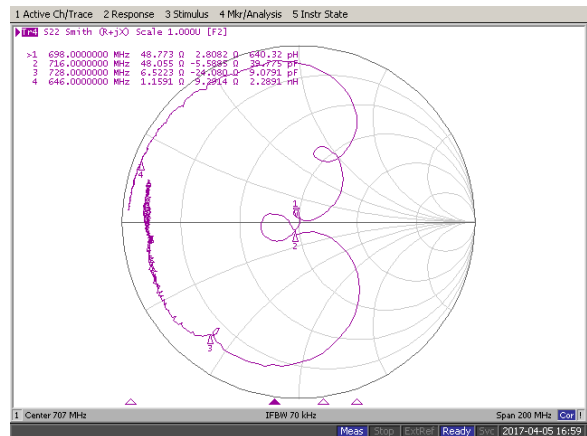
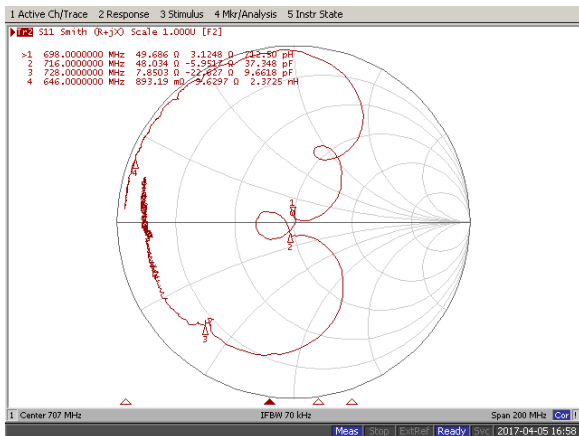
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Input / Output VSWR Charts



Input / Output Smith Charts



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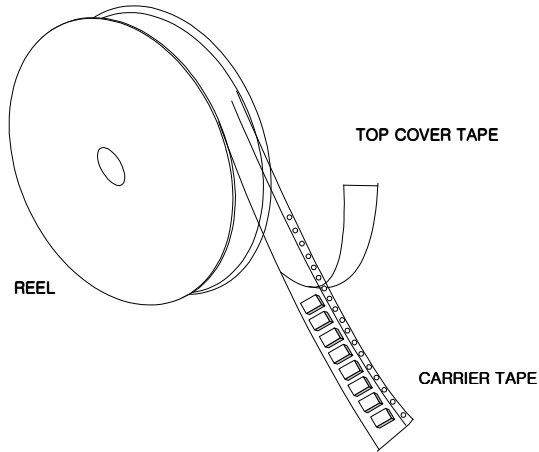
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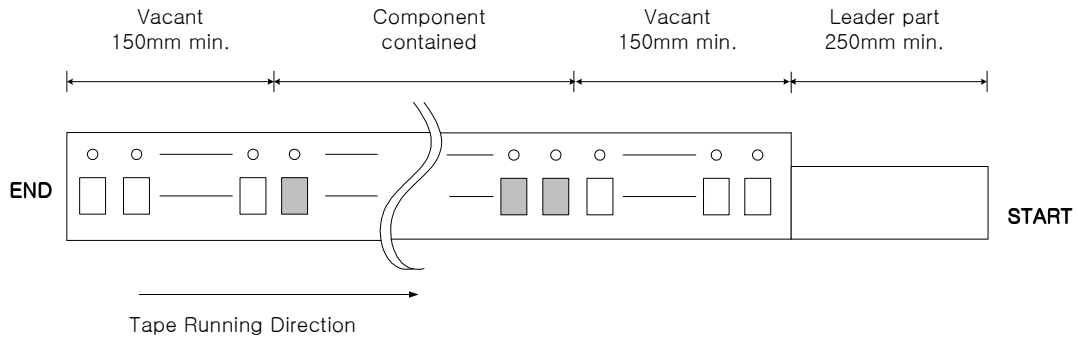
Packing Specifications

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

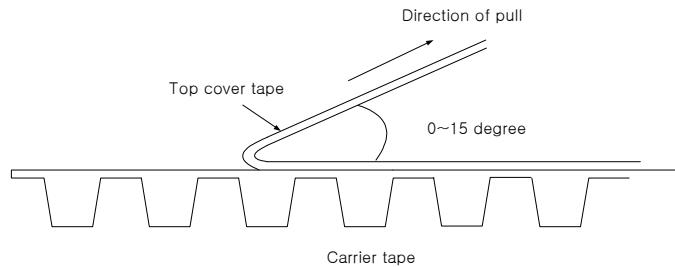


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

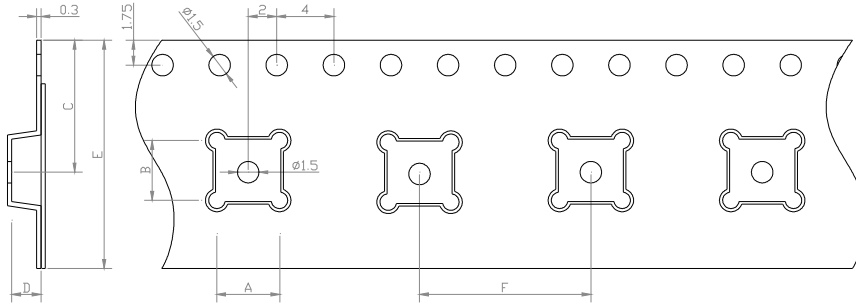


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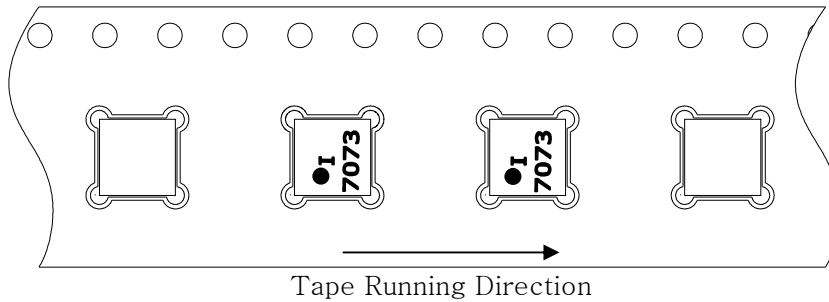


Carrier Tape Dimensions [unit : mm]

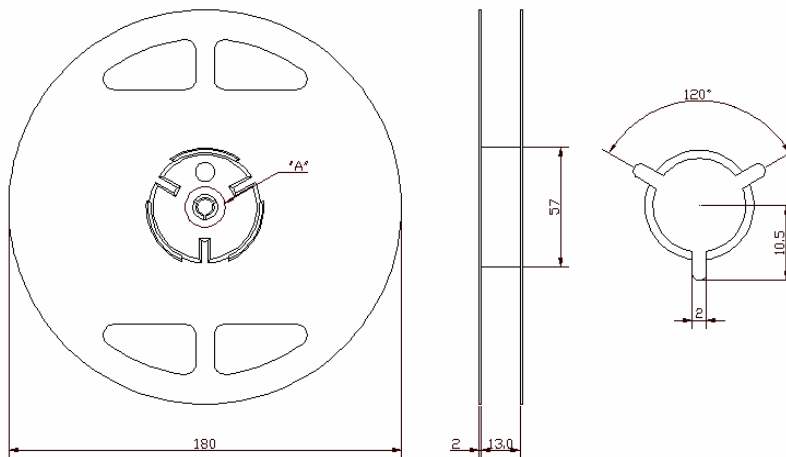


A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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