

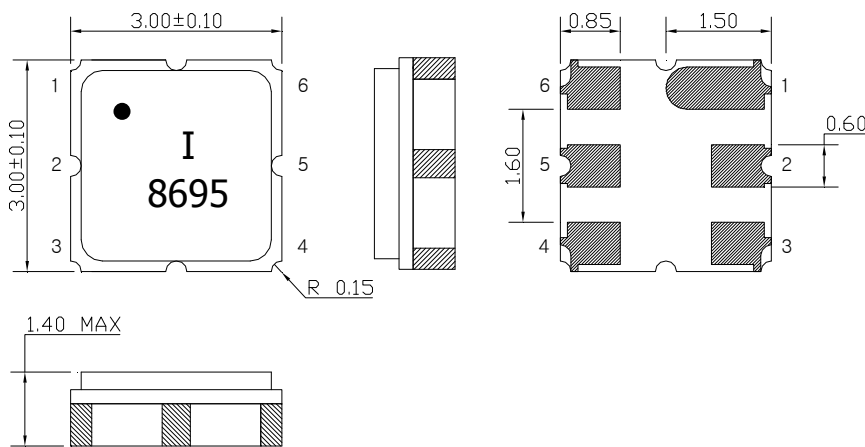
SAW Bandpass Filter F8695



Features

- RF Bandpass Filter for Remote Control.
- Usable bandwidth of 2 MHz
- 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 um, Over a 1.27 ~ 8.89 um
Ni Plating

Pin Configurations

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

Maximum Ratings

Parameters	Unit	Minimum	Typical	Maximum
Operating Temperature Range	℃	-20	25	70
Storage Temperature Range	℃	-40	-	85
Power Handling Capability	dBm	-	-	18

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.	F8695	
		Rev. Date	2017-9-21	
		Rev.	AS01	1/6

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Specifications

Fc = 869.0 MHz

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	869.0	-	MHz
Insertion Loss (868 ~ 870 MHz)	-	3.0	3.5	dB
Amplitude Ripple (868 ~ 870 MHz)	-	0.3	1.3	dBp-p
Return Loss (868 ~ 870 MHz)	10	13.5	-	dB
Attenuation			-	
10 MHz ~ 300 MHz	45	50	-	
300 MHz ~ 845 MHz	40	45	-	
845 MHz ~ 853 MHz	35	38	-	
879 MHz ~ 883 MHz	20	30	-	dB
883 MHz ~ 915 MHz	45	50	-	
915 MHz ~ 945 MHz	45	50	-	
945 MHz ~ 1200 MHz	38	45	-	
1200 MHz ~ 2000 MHz	30	35	-	
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

●¹⁾
I²⁾
8695³⁾

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

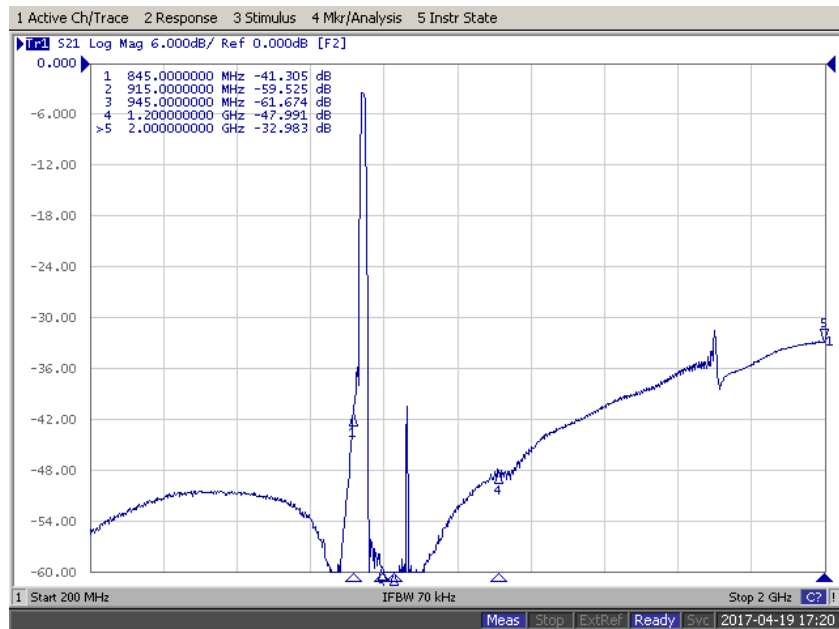
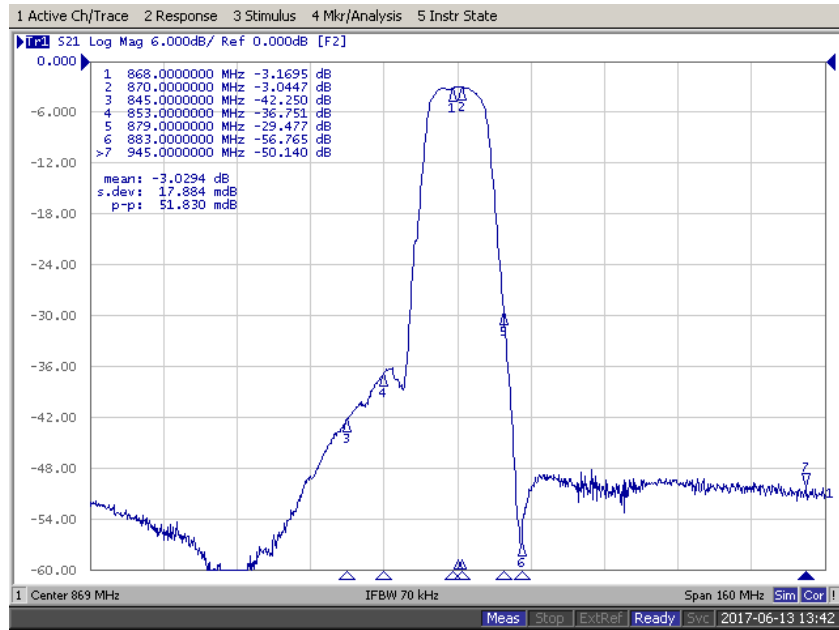
* Ink or Laser Marking available

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Typical Performance (at 25°C)



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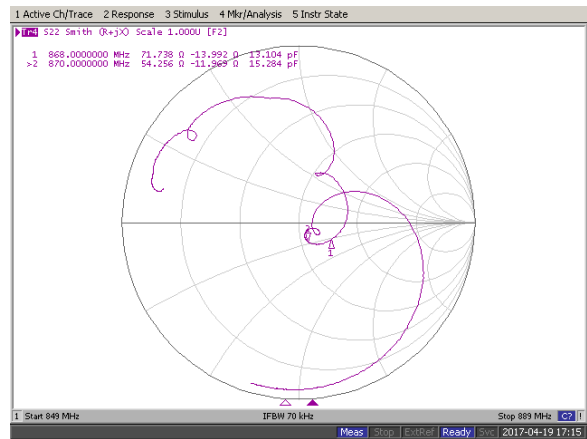
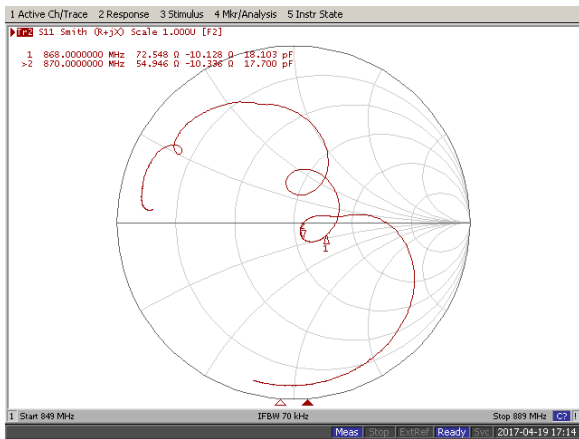
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Input / Output Return Loss



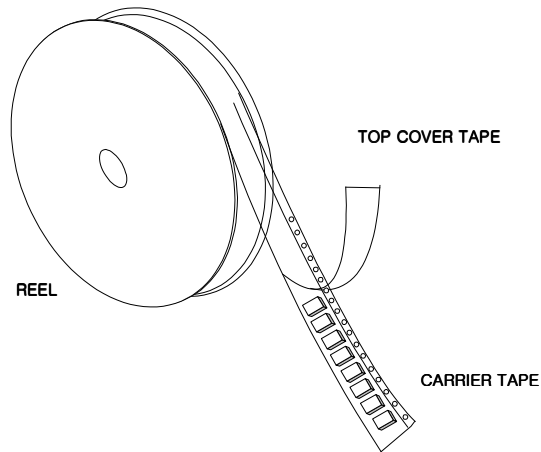
Input / Output Smith Charts



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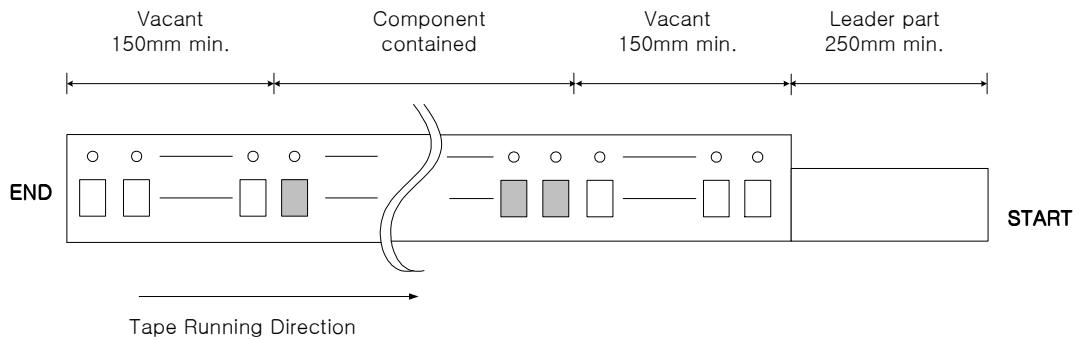
Packing Specification

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

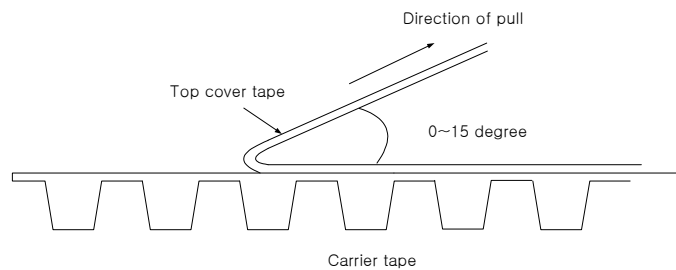


2. Tensile strength of carrier tape

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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