

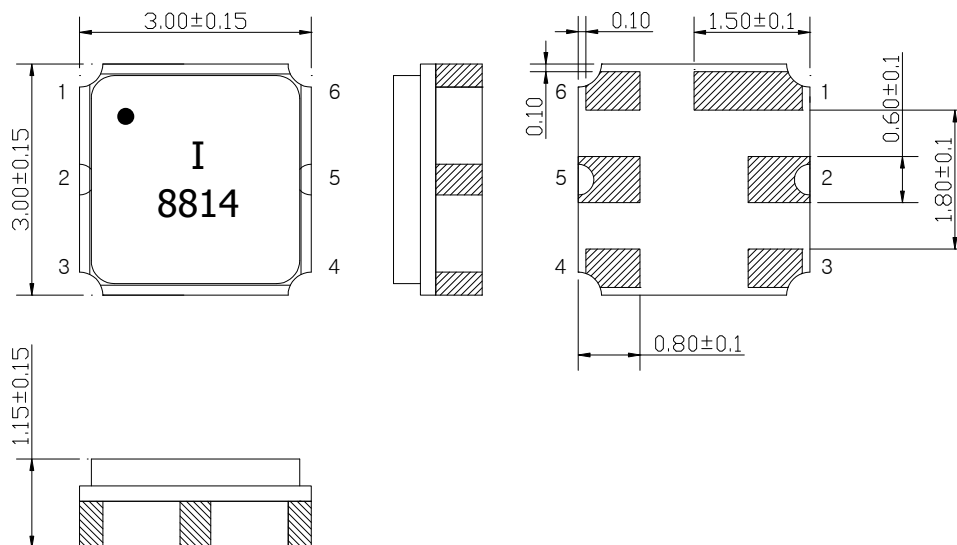
SAW Bandpass Filter F8814



Features

- CDMA applications
- Usable bandwidth of 25 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 μ m, Over a 1.27 ~ 8.89 μ m
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	-30	25	85
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	-	-

Electrostatics Sensitive Device (ESD)

	I T F Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	F8814	
		Rev. Date	2007-05-29	
		Rev.	NF7009-AS01	1/7

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Specifications

	Minimum	Typical	Maximum	Unit
Center Frequency (Fc)	-	881.5	-	MHz
Insertion Loss (In Fc +/- 12.5 MHz)	-	1.77	3.0	dB
Amplitude Ripple (In Fc +/- 12.5 MHz)	-	0.67	1.3	dBp-p
VSWR (In Fc +/- 12.5 MHz)	-	1.7	2.5	
Relative Attenuation				
DC ~ 779.0 MHz	45.0	51.0		dB
779.0 MHz ~ 849.0 MHz	40.0	44.0	-	
914.0 MHz ~ 951.0 MHz	23.0	29.0	-	
951.0 MHz ~ 981.0 MHz	40.0	53.0	-	
981.0 MHz ~ 1049.0 MHz	50.0	61.0	-	
1049.0 MHz ~ 2000.0 MHz	40.0	44.0		
Temperature Range (Operational)	-30	25	85	°C
Input RF Power (In Fc +/- 12.5 MHz)	-	10	-	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
- 3) All attenuation measurements are measured relative to insertion loss

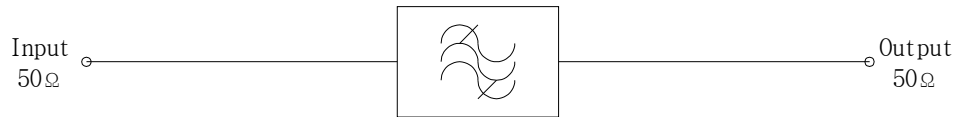
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Matching Schematic

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



Marking Configuration

●¹⁾
I²⁾
8814³⁾

1) Pad Number 1 Index

2) Manufacturer name

3) Marking Number

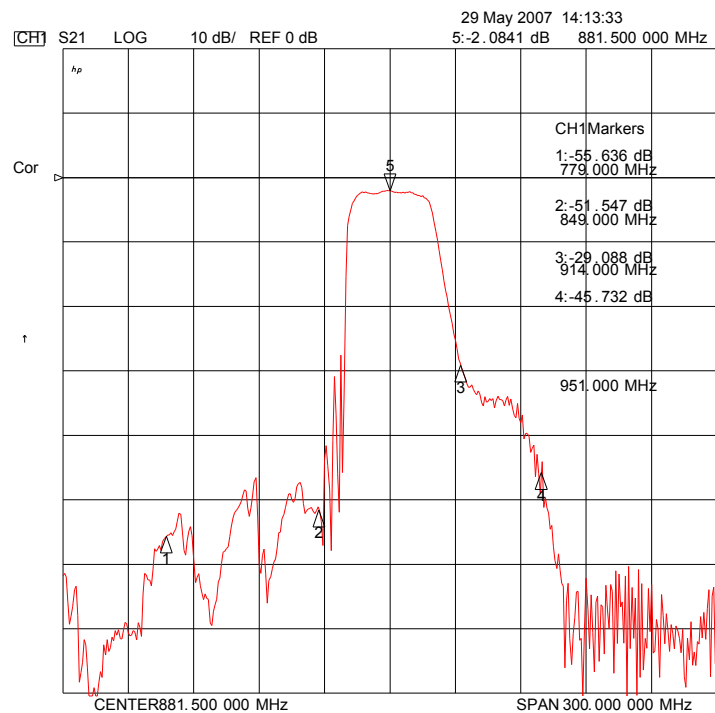
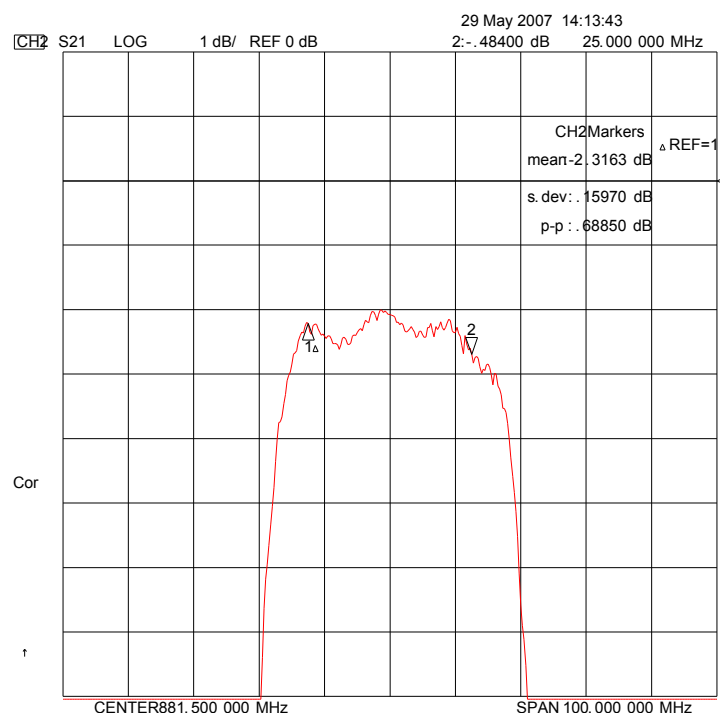
* Ink or Laser Marking available

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Typical Performance (at 25°C)

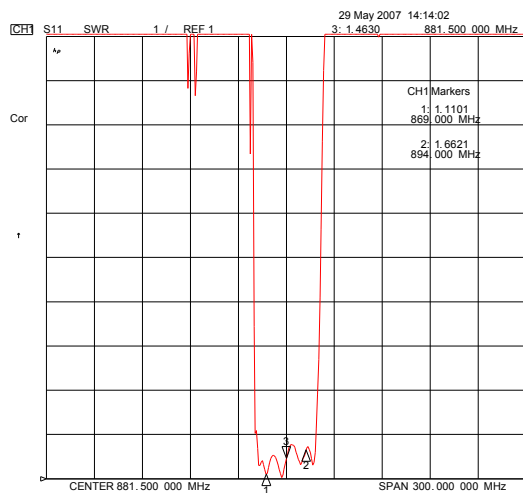
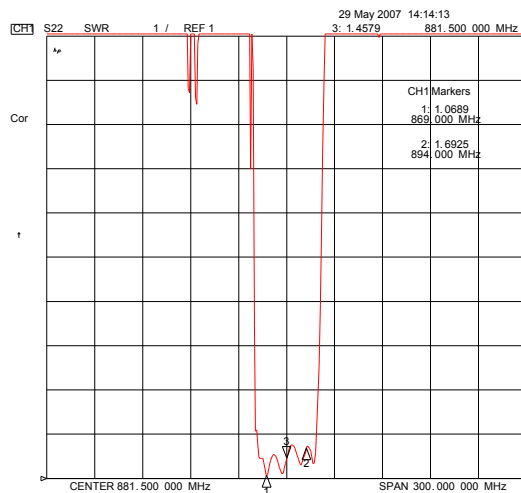


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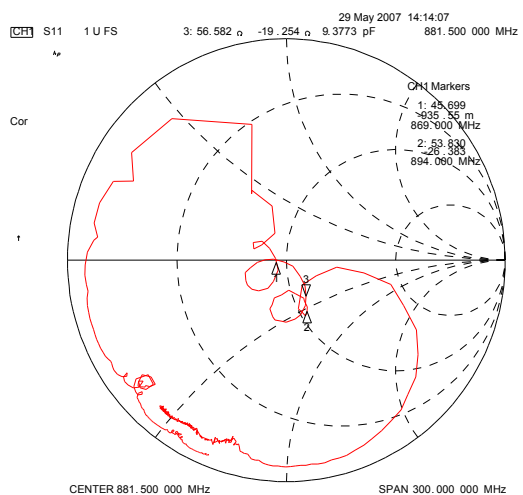
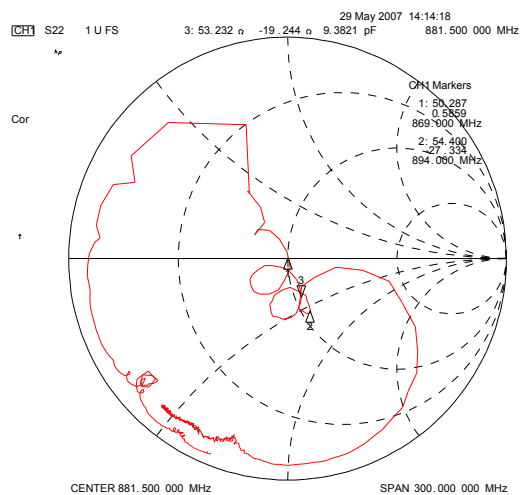
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Input / Output VSWR Charts



Input / Output Smith Charts



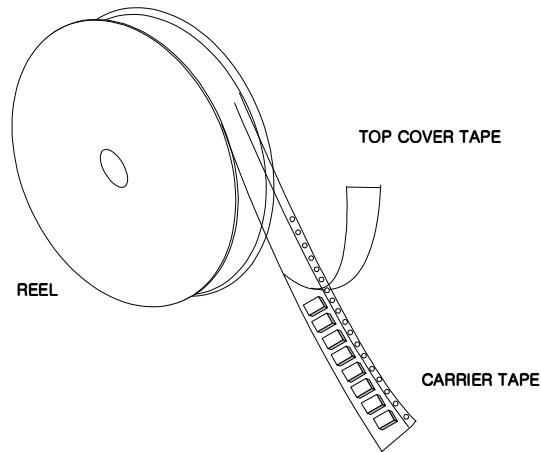
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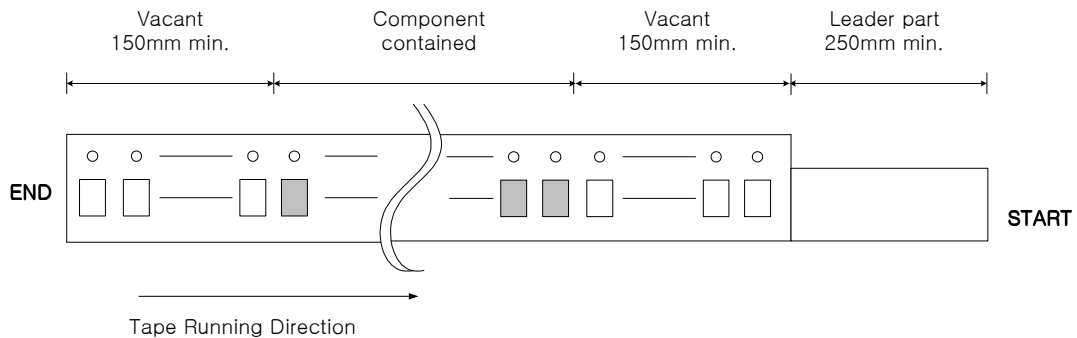
Packing Specification

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

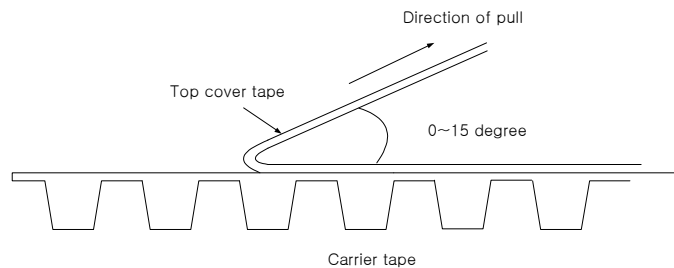


2. Tensile strength of carrier tape

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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DEVICE