

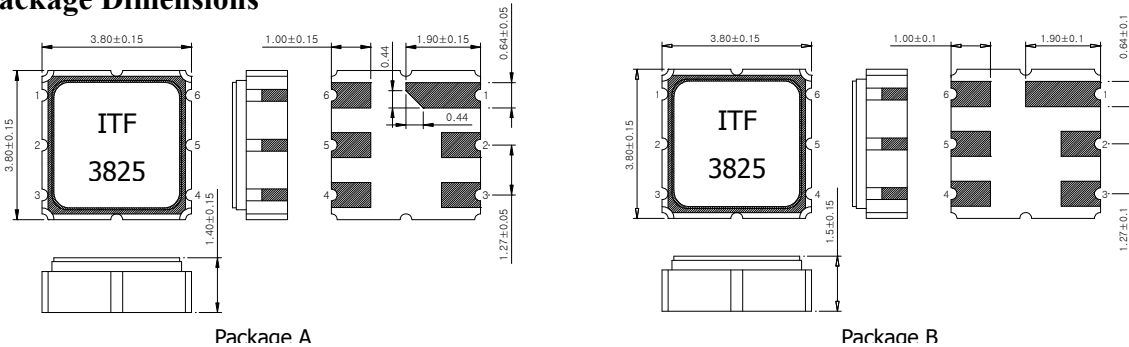
SAW Bandpass Filter F3825



Features

- RF bandpass filter
- Usable bandwidth 5MHz (380 MHz ~ 385 MHz)
- High attenuation
- No matching 50Ω single-ended operation
- Ceramic Surface Mounted Device Package (3.8 mm × 3.8 mm)
- RoHS compliant

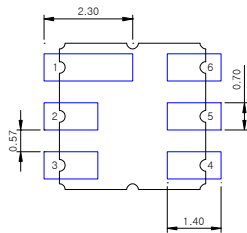
Package Dimensions



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 Configuration	
2	Input
5	Output
1, 3, 4, 6	Ground

Recommended footprint



Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	25	85
Storage Temperature Range	°C	-40	-	85
Power Handling Capability	dBm	-	-	30

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.	F3825	
		Rev. Date	2018-09-04	
		Rev.	NR9001-AS02	1/7

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Specifications

Fc = 382.5 MHz

		Minimum	Typical	Maximum
Center frequency (Fc)	MHz	-	382.5	-
Insertion Loss (Fc +/- 2.5 MHz)	dB	-	2.2	3.5
Amplitude Ripple (Fc +/- 2.5 MHz)	dB	-	0.8	1.8
VSWR (Fc +/- 2.5 MHz)		-	1.3	2.0
Absolute Attenuation				
D.C. ~ 365.0 MHz	dB	23	28	-
390.0 ~ 395.0 MHz		32	40	-
395.0 ~ 3000.0 MHz		25	30	-
Input/Output impedance	Ohm	-	50	-

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

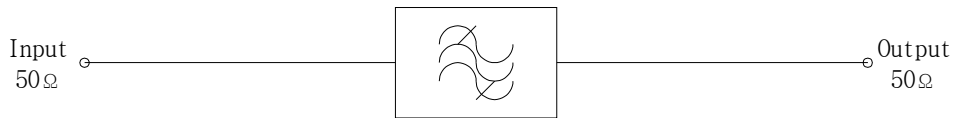
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Matching Schematic

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



Marking Configuration


ITF ¹⁾

3825 ²⁾

1) Manufacturer name

2) Marking Number

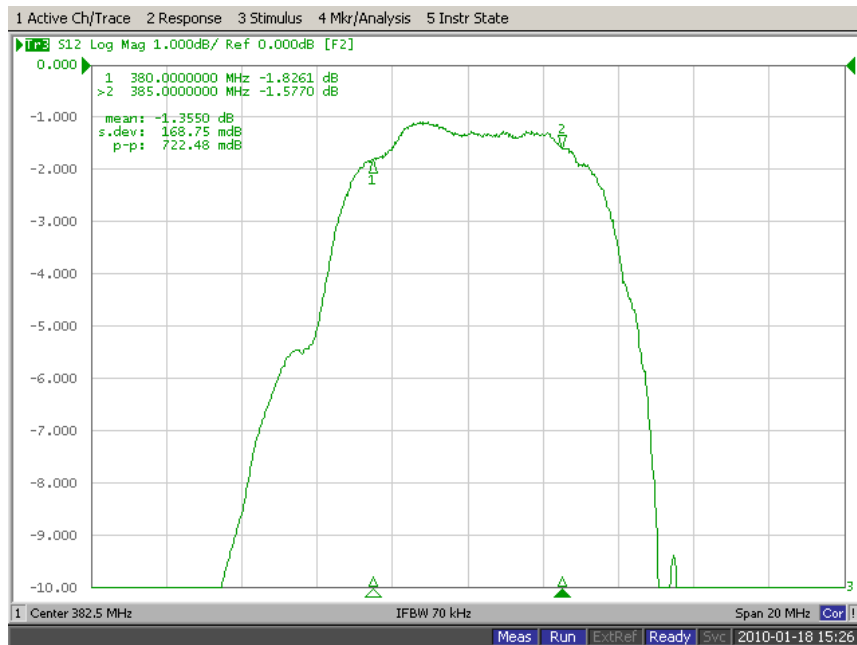
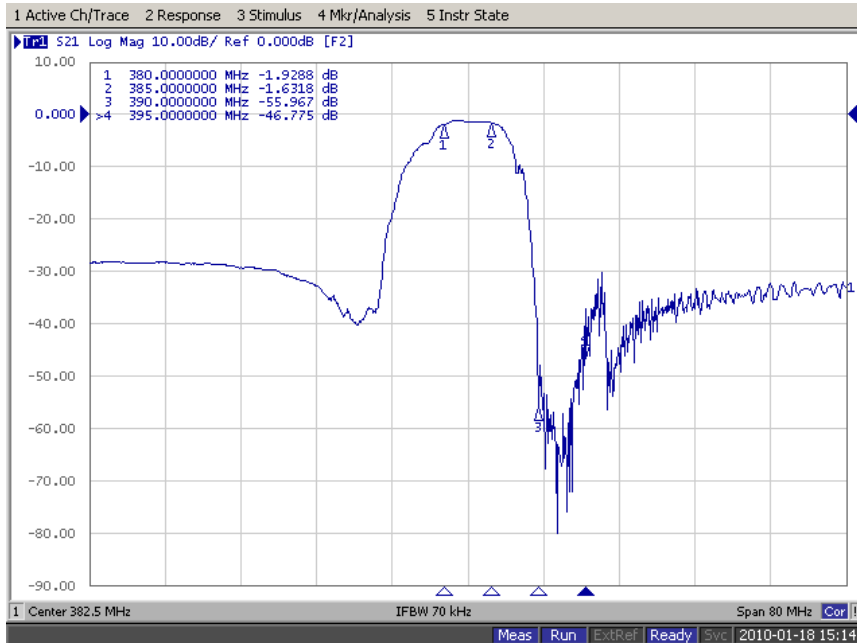
* Ink or Laser Marking available

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Typical Performance (at 25°C)

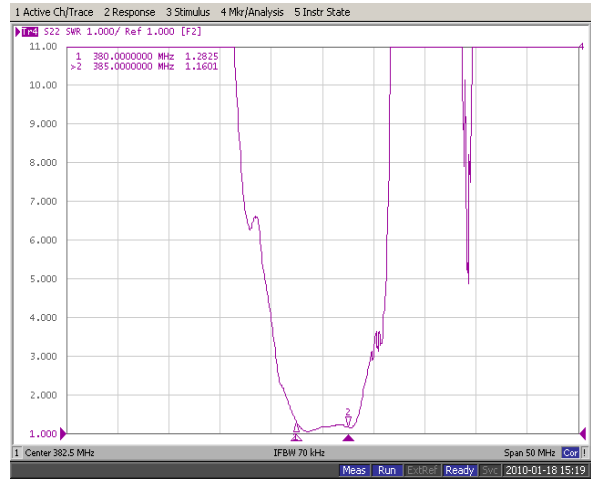
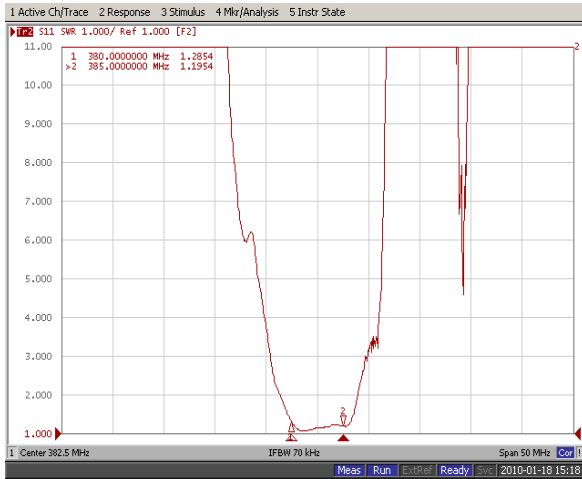


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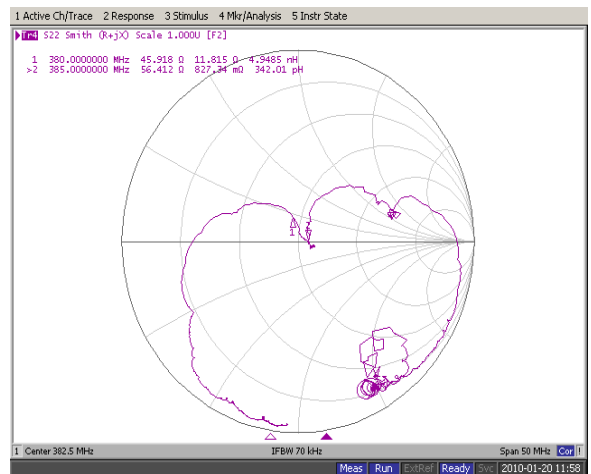
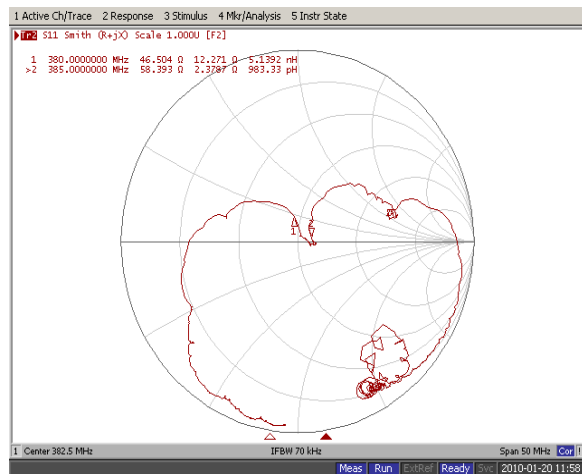
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Input / Output VSWR Charts



Input / Output Smith Charts



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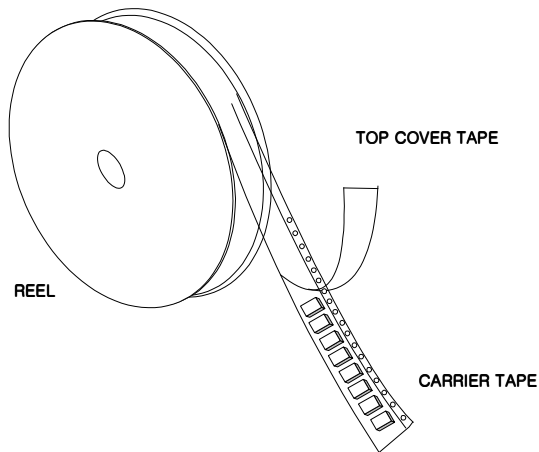
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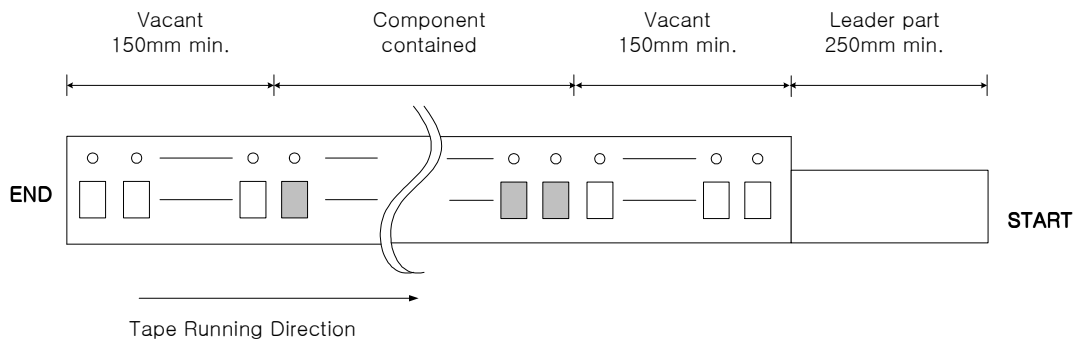
Packing Specification

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

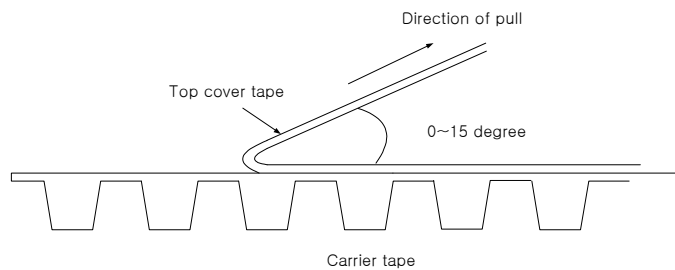


2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

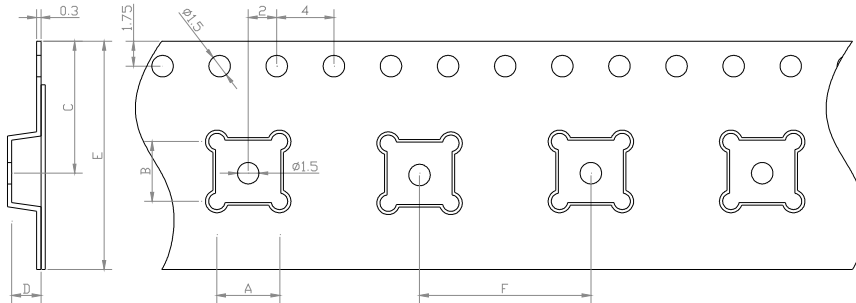


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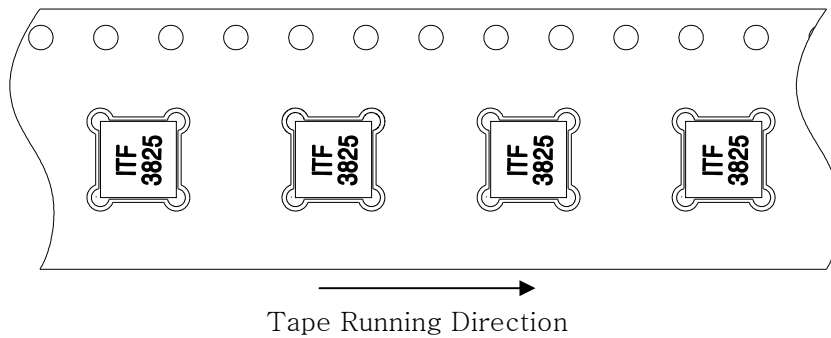


Carrier Tape Dimensions [unit : mm]

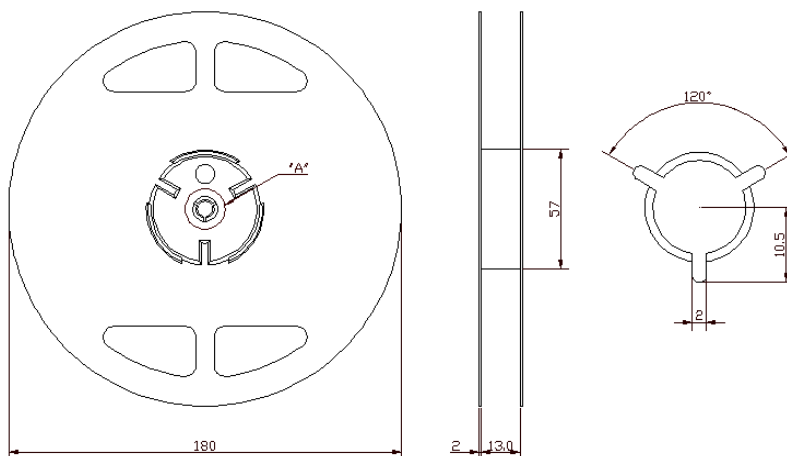



A	4.30 ± 0.1
B	4.30 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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