

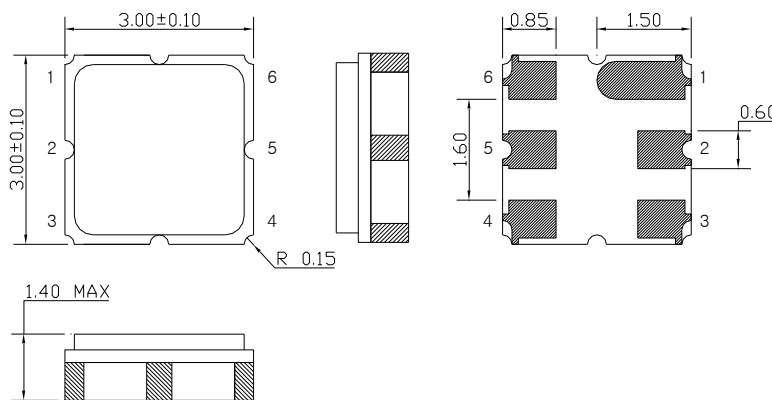
SAW Bandpass Filter F1G15



Features

- RF bandpass filter
- Usable bandwidth 25.0 MHz
- Ceramic Surface Mounted Device (SMD) Package (3.0mm × 3.0mm)
- RoHS/RoHS2 (2015/863/EU) 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

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	25	125
Storage Temperature Range	°C	-40	-	125
Power Handling Capability	dBm	-	-	10

Electrostatics Sensitive Device (**ESD**)

	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	F1G15	
		Rev. Date	2020-09-22	
		Rev.	NSVi01-AS01	1/7

SAW Bandpass Filter F1G15



Specifications

Fc = 1176.45 MHz

		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	1176.45	-
Insertion Loss (Fc ± 12.5MHz)	dB	-	1.5	2.0
Amplitude Ripple (Fc ± 12.5MHz)	dB	-	0.5	1.2
VSWR (Fc ± 12.5MHz)		-	2.0	2.2
Group delay variation (Fc ± 12.5MHz)	ns	-	12	20
Absolute attenuation				
100 ~ 900 MHz		30	35	
900 ~ 1000 MHz		35	39	
1000 ~ 1100 MHz		32	40	
1100 ~ 1121.45 MHz		32	39	
1231.45 ~ 1250 MHz	dB	40	50	-
1250 ~ 2350 MHz		35	47	
1350 ~ 1550 MHz		36	43	
1550 ~ 1700 MHz		34	40	
1700 ~ 2000 MHz		30	35	
2000 ~ 2400 MHz		26	32	
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

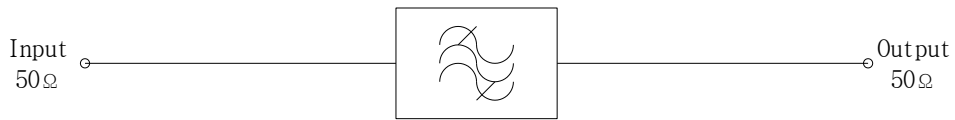
	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	F1G15	
		Rev. Date	2020-09-22	
		Rev.	NSVi01-AS01	2/7


SAW Bandpass Filter F1G15



Matching Schematic

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

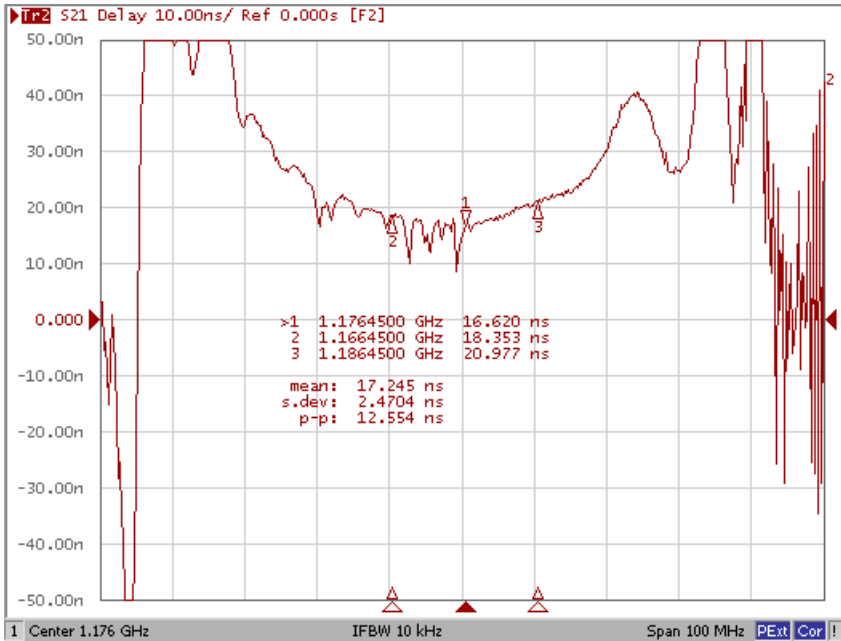


 Integrated Technology Future	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	F1G15	
		Rev. Date	2020-09-22	
		Rev.	NSVi01-AS01	3/7

SAW Bandpass Filter F1G15

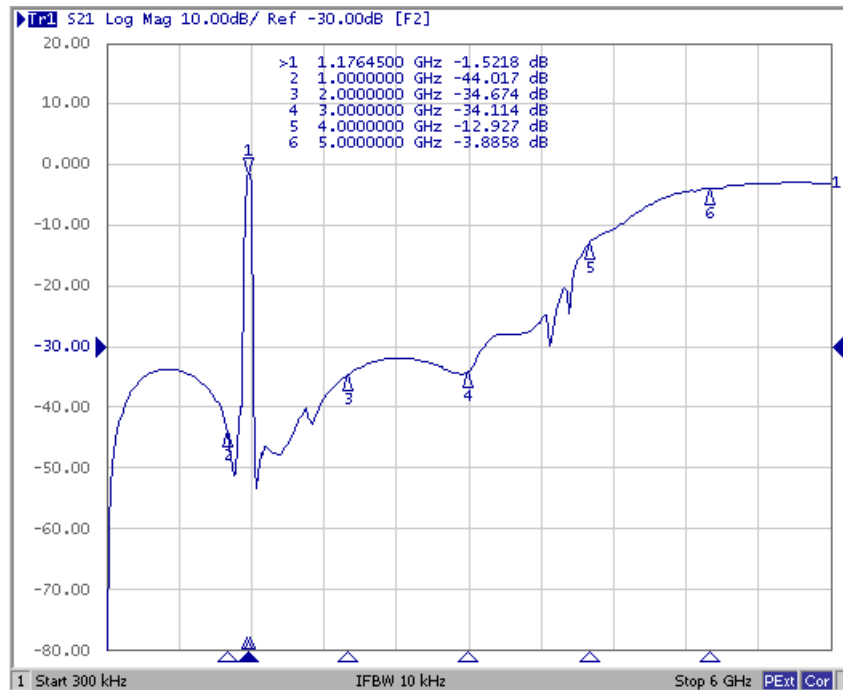
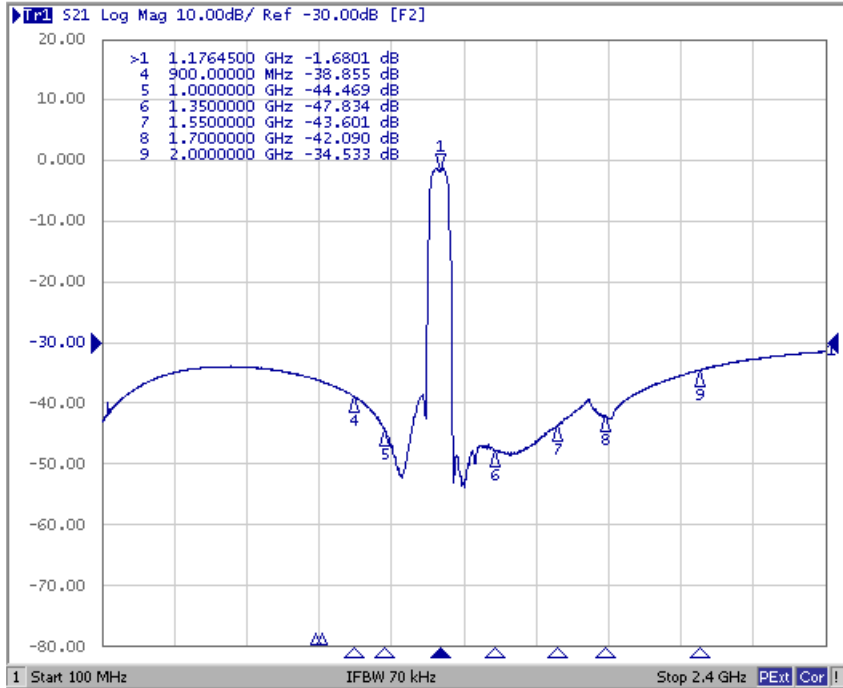



Typical Performance (at 25°C)



	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	FIG15	
		Rev. Date	2020-09-22	
		Rev.	NSVi01-AS01	4/7

SAW Bandpass Filter F1G15



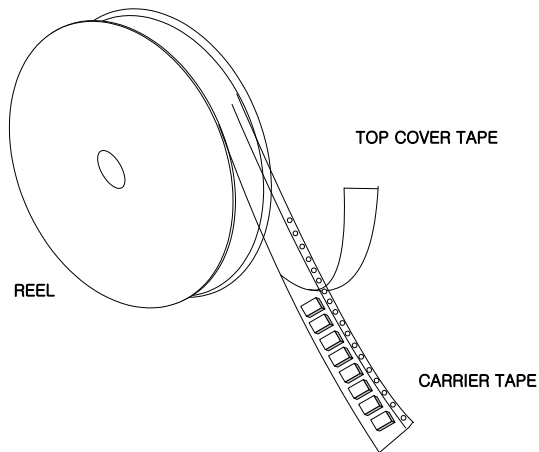
	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	FIG15	
		Rev. Date	2020-09-22	
		Rev.	NSVi01-AS01	5/7

SAW Bandpass Filter F1G15



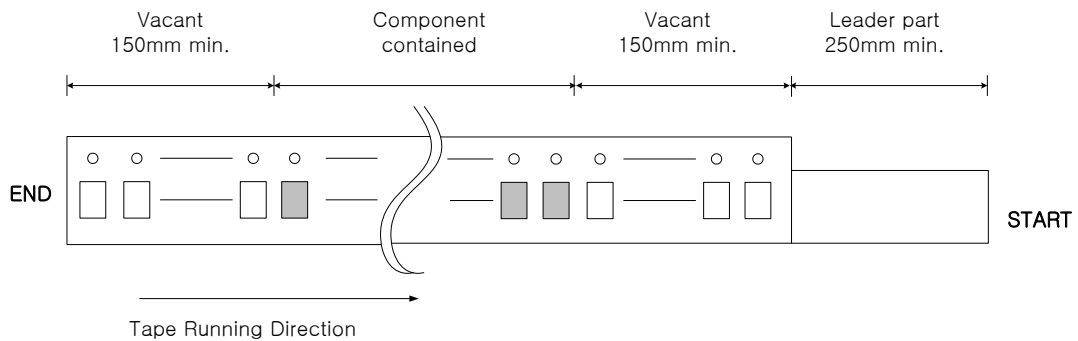
Packing Specification

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

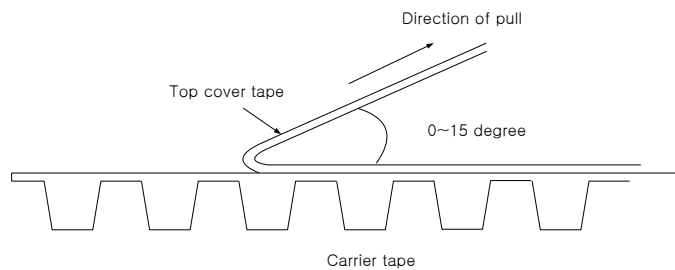



2. Tensile strength of carrier tape

4.4N/mm width

3. Top cover tape adhesion

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

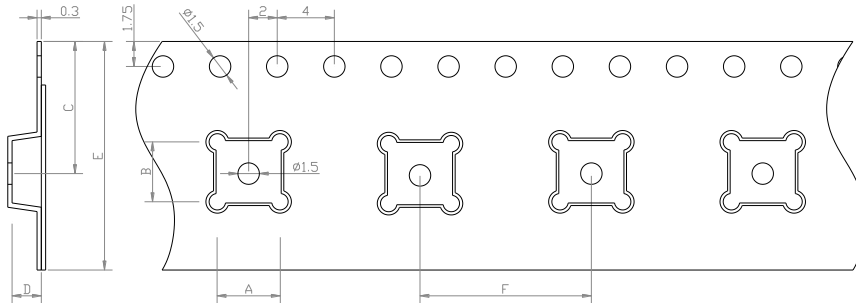


 <p>ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501</p>	Part No.	FIG15	
	Rev. Date	2020-09-22	
	Rev.	NSVi01-AS01	6/7

SAW Bandpass Filter F1G15

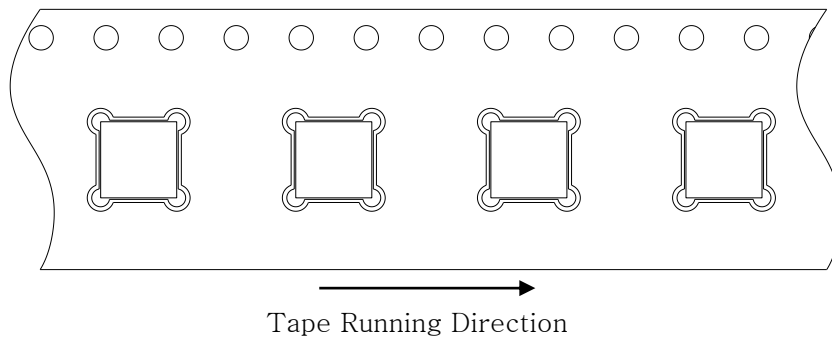


Carrier Tape Dimensions [unit : mm]

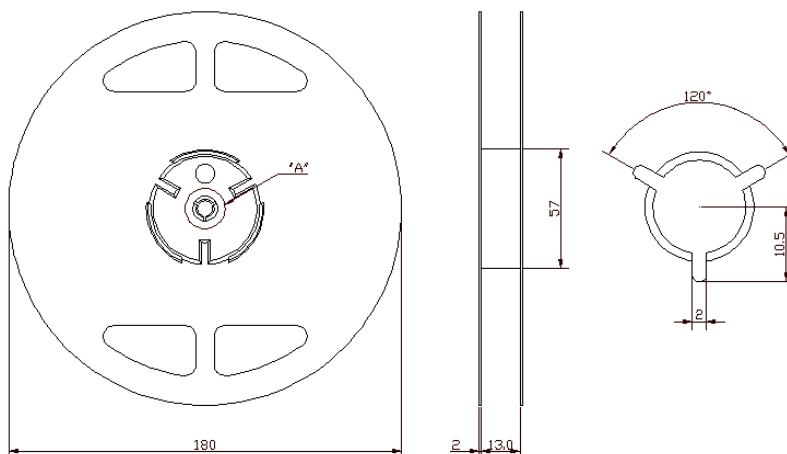



A	3.40 ± 0.1
B	3.40 ± 0.1
C	7.25 ± 0.1
D	1.70 ± 0.1
E	12.00 ± 0.1
F	8.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



	ITF Co., Ltd. 102-901, 22, Samjak-ro, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea, 14501	Part No.	F1G15	
		Rev. Date	2020-09-22	
		Rev.	NSVi01-AS01	7/7