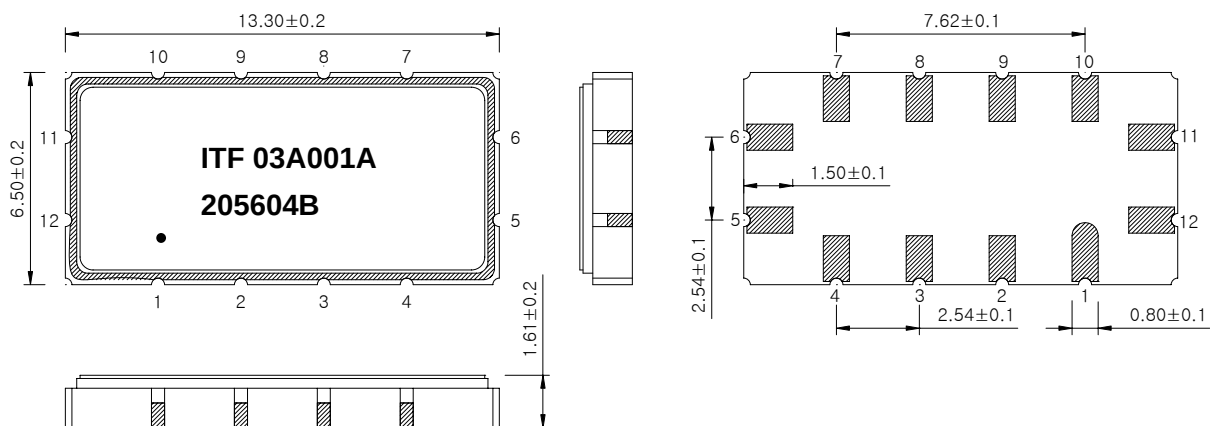


SAW Bandpass Filter 205604B

Features

- For IF bandpass filter
- High attenuation
- Single-ended operation
- SMD Package 13.3mm × 6.5mm × 1.6mm

Package Dimension



Package S1365

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 Configuration

11	Input
5	Output
6, 12	Ground
1, 2, 3, 4, 7, 8, 9, 10	Case ground

Maximum Ratings

Parameter	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-10	25	60
Storage Temperature Range	°C	-40	-	85

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.	205604B	
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Electrical Specification

$F_c = 100\text{MHz}$

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency at room temp.	MHz	99.925	100.000	100.075
Insertion Loss	dB	-	4.0	5.5
3dB Bandwidth	MHz	0.03	0.06	-
Absolute Delay	usec	-	10	15
Relative Attenuation ~ $F_o - 0.5\text{ MHz}$... $F_o + 1.0\text{ MHz}$ ~	dB	50	55	-
Temperature Coefficient of Frequency	ppm/ $^{\circ}\text{C}^2$	-	-0.03	-

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

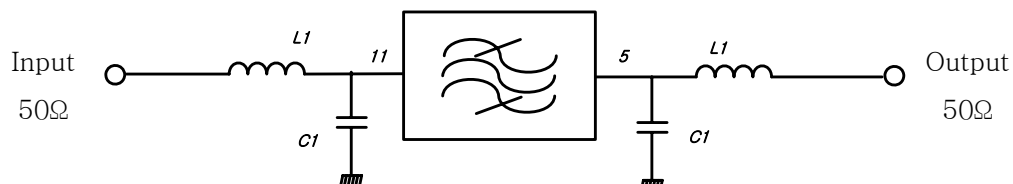
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205604B	
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Matching Schematic

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



$L1 = 270 \text{ nH}$

$C1 = 2 \text{ pF}$

Marking Configuration

ITF¹⁾ 03A001²⁾ A³⁾
205604B⁴⁾

- 1) Manufacturer name
- 2) Lot Number
- 3) Group Name (**refer to the next page)
- 4) Part Number

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205604B	
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SAW Bandpass Filter 205604B



Marking Example

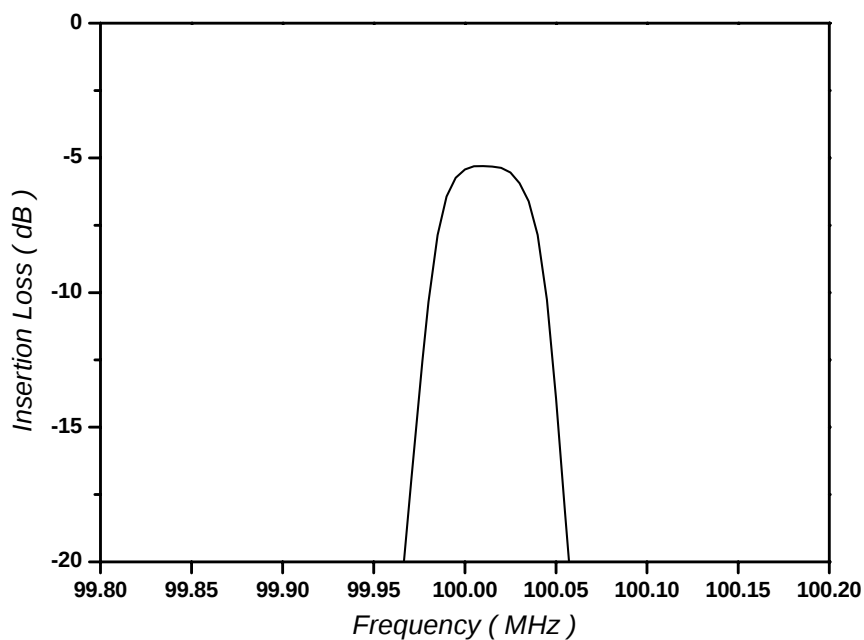
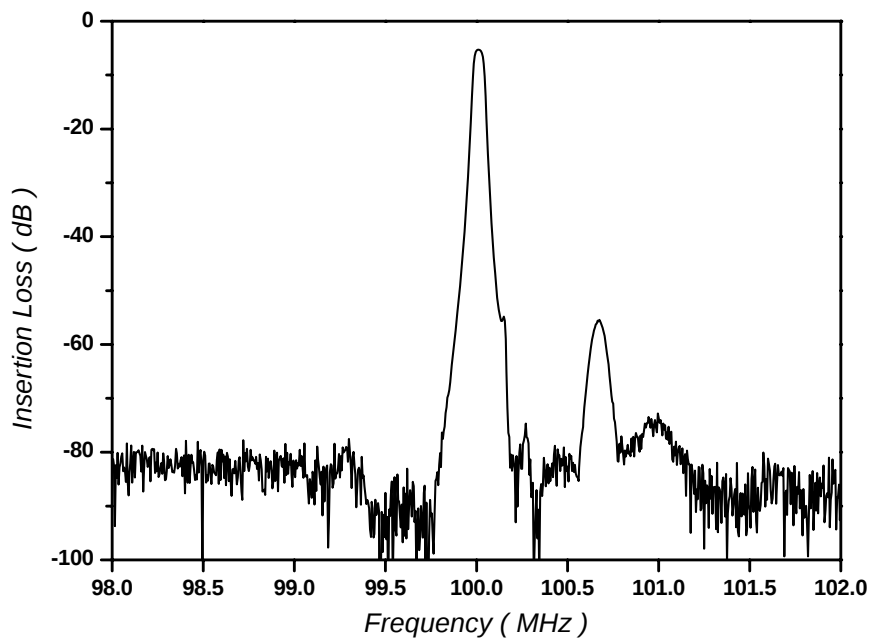
Center Frequency Range (MHz) at room temp.	Marking
99.925 ~ 99.935	ITF 02D073 A 205604B
99.936 ~ 99.945	ITF 02D073 B 205604B
99.946 ~ 99.955	ITF 02D073 C 205604B
99.956 ~ 99.965	ITF 02D073 D 205604B
99.966 ~ 99.975	ITF 02D073 E 205604B
99.976 ~ 99.985	ITF 02D073 F 205604B
99.986 ~ 99.995	ITF 02D073 G 205604B
99.996 ~ 100.005	ITF 02D073 H 205604B
100.006 ~ 100.015	ITF 02D073 I 205604B
100.016 ~ 100.025	ITF 02D073 J 205604B
100.026 ~ 100.035	ITF 02D073 K 205604B
100.036 ~ 100.045	ITF 02D073 L 205604B
100.046 ~ 100.055	ITF 02D073 M 205604B
100.056 ~ 100.065	ITF 02D073 N 205604B
100.066 ~ 100.075	ITF 02D073 O 205604B

 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205604B	
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Typical Performance (at +25 °C)

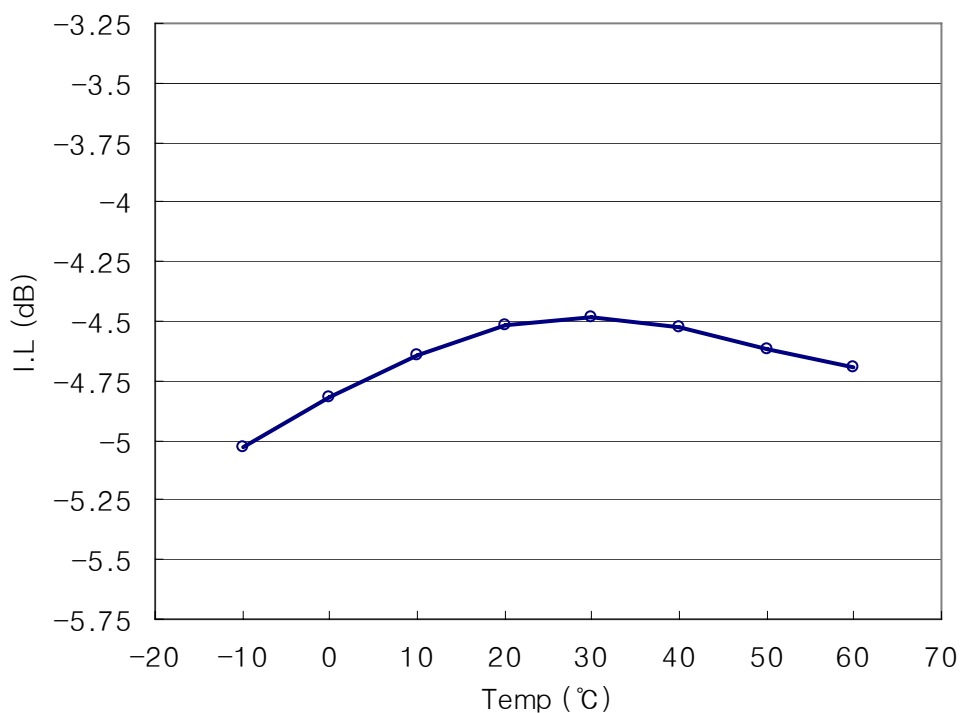
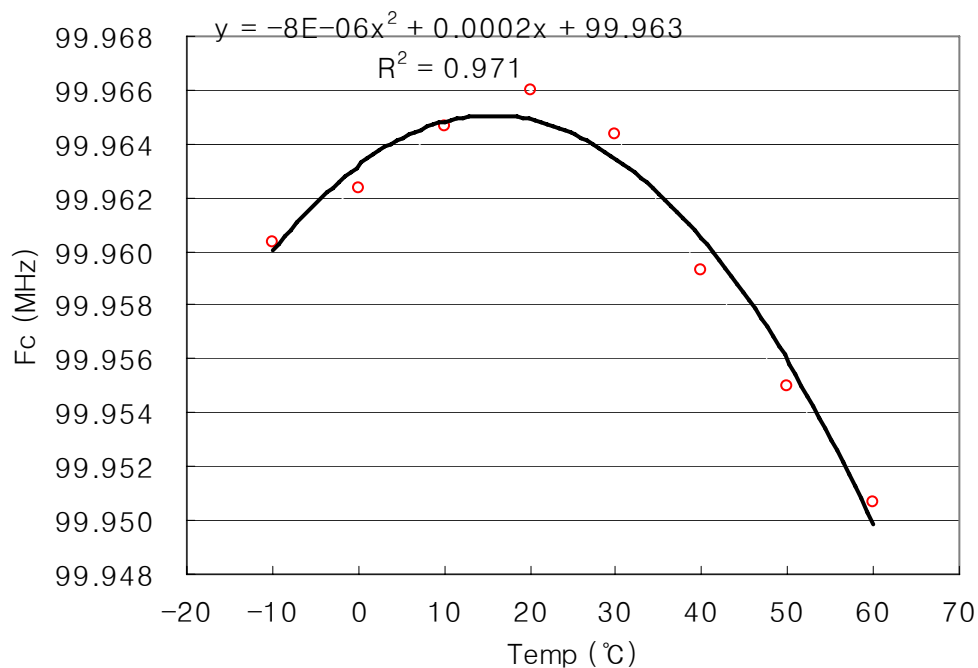


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SAW Bandpass Filter 205604B



Temperature Characteristic



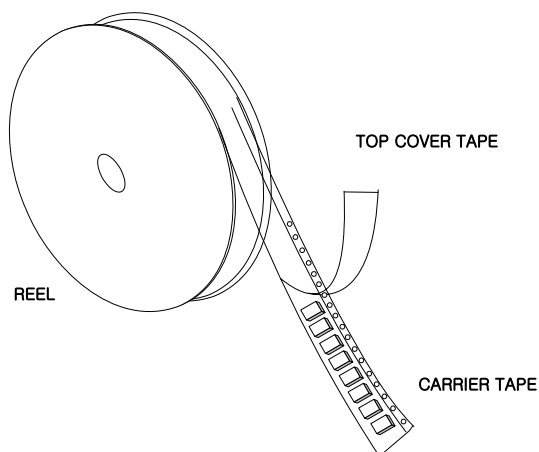
	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205604B	
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SAW Bandpass Filter 205604B



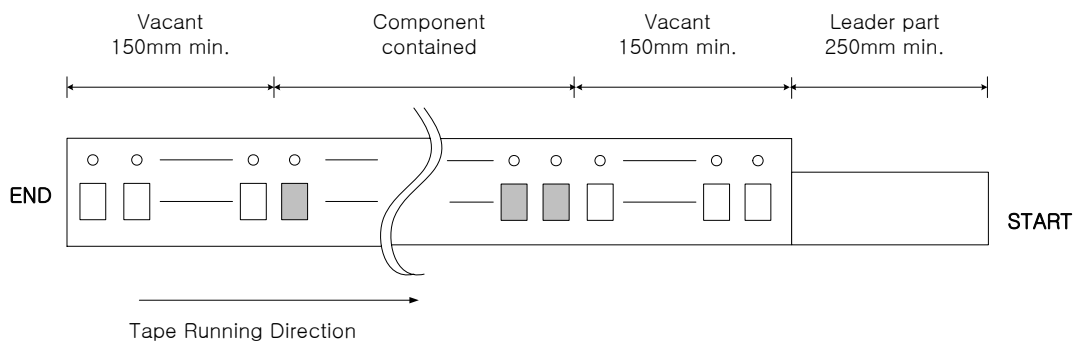
Packing Specification

1. Reeling Quantity : 2000 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

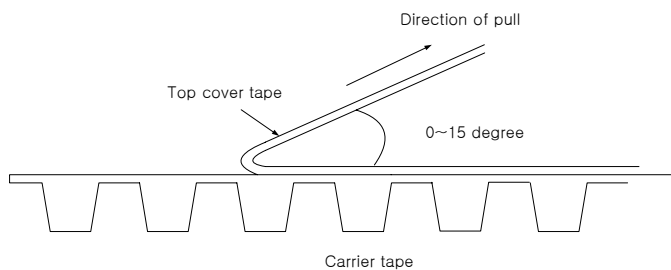


2. Tensile strength of carrier tape

4.4N/mm width

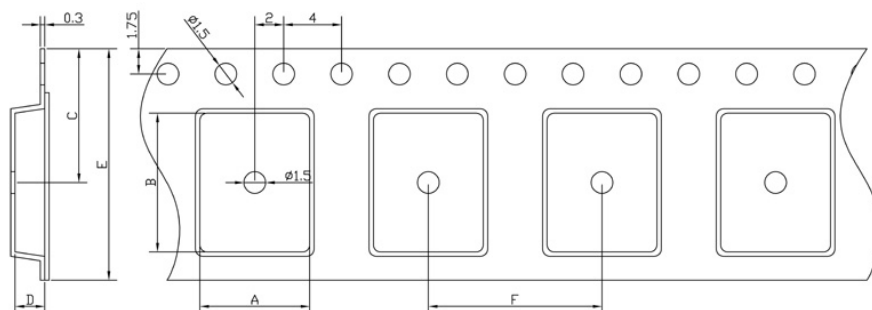
3. Top cover tape adhesion

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



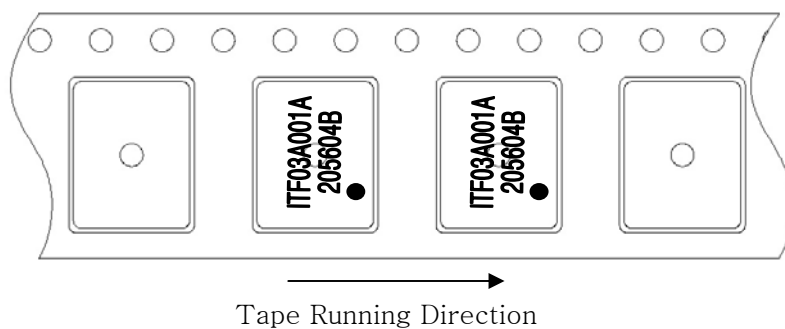
 Integrated Technology Future	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	205604B	
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Carrier Tape Dimensions [unit : mm]

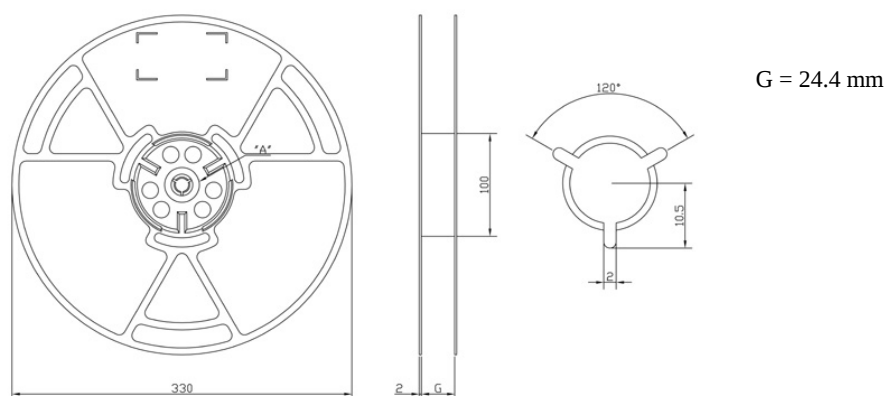


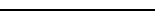
A	7.00 ± 0.1
B	13.80 ± 0.1
C	13.25 ± 0.1
D	1.95 ± 0.1
E	24.00 ± 0.1
F	12.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



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