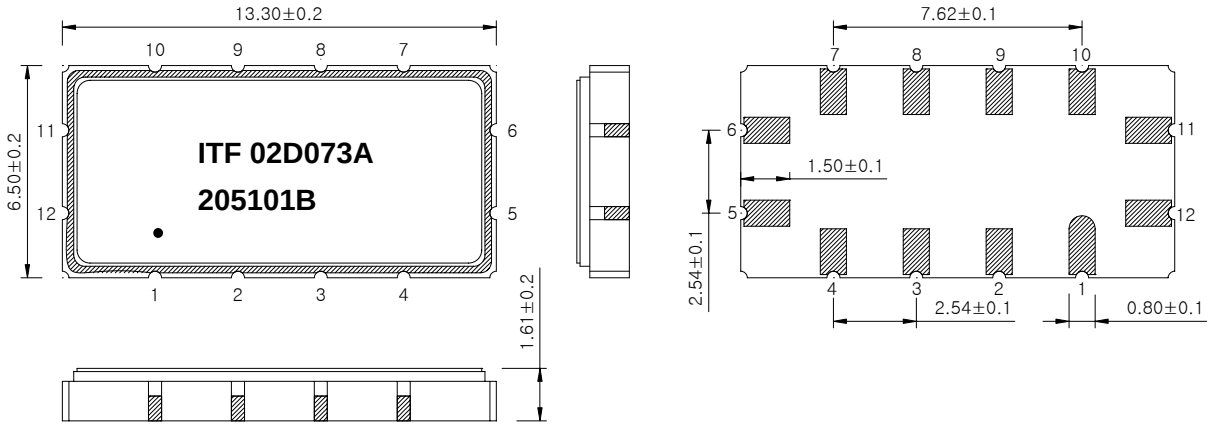
SAW Bandpass Filter 205101B

Features

- IF bandpass filter
- High attenuation
- 50 ohms single-ended operation
- SMD Package 13.3mm × 6.5mm × 1.6mm

Package Dimension



Package S1365

Dimensions shown are nominal in millimeters

Body : Al_2O_3 Ceramic
Lid : Kovar, Ni Plated
Terminations : Au plating 0.3 ~ 1.0 um,
Over a 1.27 ~ 8.89 um 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**)

SAW Bandpass Filter 205101B

Electrical Specification

Fc = 70.0MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency at room temp.	MHz	69.955	70.0	70.044
Insertion Loss	dB	-	5.0	6.0
3dB Bandwidth	MHz	0.030	0.035	-
40dB Bandwidth	MHz	-	0.170	0.200
Absolute Group Delay at Fc	usec	-	15	-
Group Delay Variation at 3dB	usec	-	5	-
Relative Attenuation 0.3 MHz … 69.8 MHz 70.2 MHz … 71.0 MHz 71.0 MHz … 75.0 MHz	dB	 50 35 50	 55 40 55	-
Temperature Coefficient of Frequency	ppm/°C^2	-	-0.03	-

Notes :

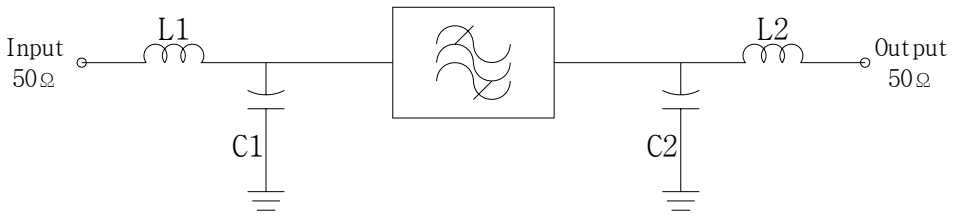
1) All specifications are based on the matching schematic shown below, measured by Agilent Network analyzer and full 2 port calibration.

2) All attenuation measurements are measured relative to insertion loss

SAW Bandpass Filter 205101B

Matching Schematic

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



L1, L2 = 680 nH

C1, C2 = 0.5 pF

Marking Configuration

ITF[1] 02D073[2] A[3]

205101B[4]

1) Manufacturer name

2) Lot Number

3) Group Name (**refer to the next page)

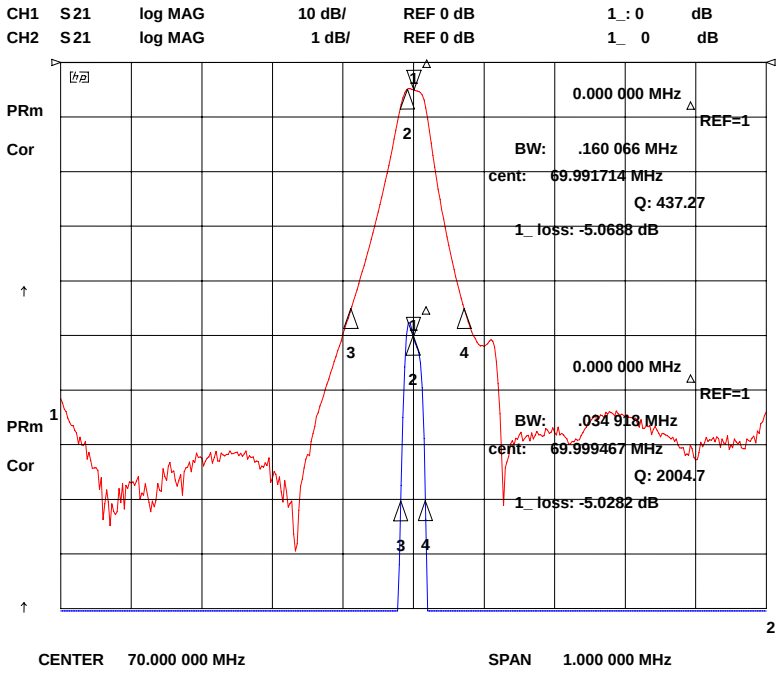
4) Part Number

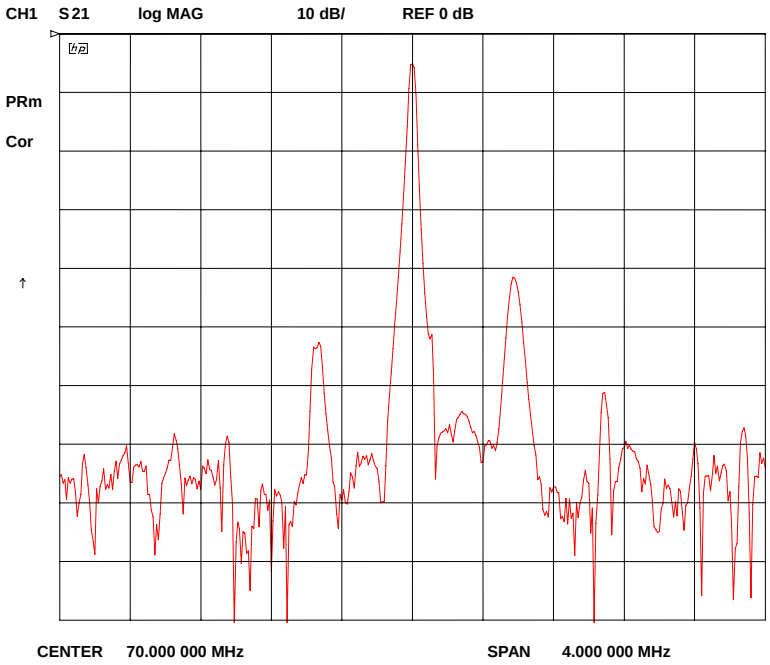
Marking Example

Center Frequency Range (MHz) at room temp.	Marking
69.955~69.964	ITF 02D073**A** 205101B
69.965~69.974	ITF 02D073**B** 205101B
69.975~69.984	ITF 02D073**C** 205101B
69.985~69.994	ITF 02D073**D** 205101B
69.995~70.004	ITF 02D073**E** 205101B
70.005~70.014	ITF 02D073**F** 205101B
70.015~70.024	ITF 02D073**G** 205101B
70.025~70.034	ITF 02D073**H** 205101B
70.035~70.044	ITF 02D073**I** 205101B

SAW Bandpass Filter 205101B

Typical Performance (at +25℃)

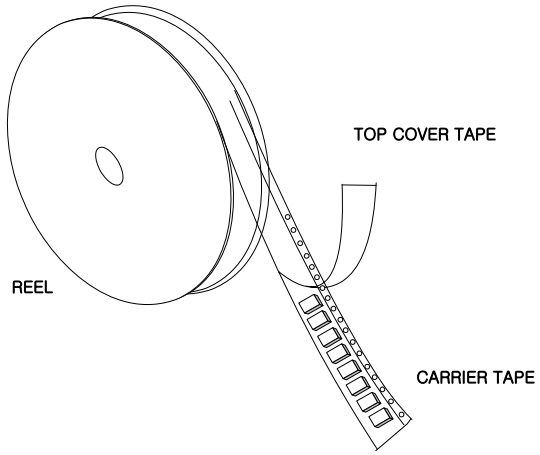




Packing Specification

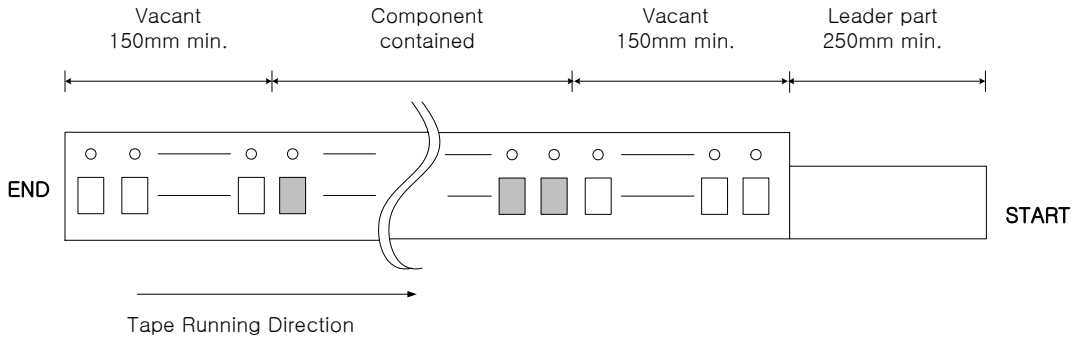
1. Reeling Quantity : 2000 pcs / reel

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

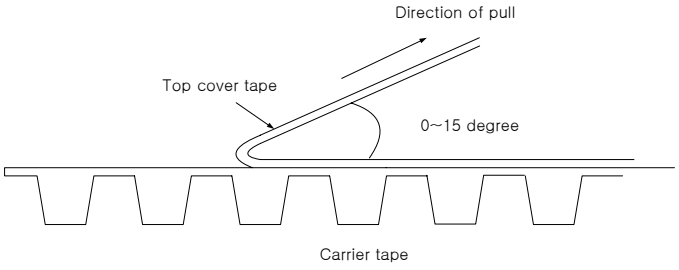
4.4N/mm width

3. Top cover tape adhesion

1) pull off angle : 0~15°

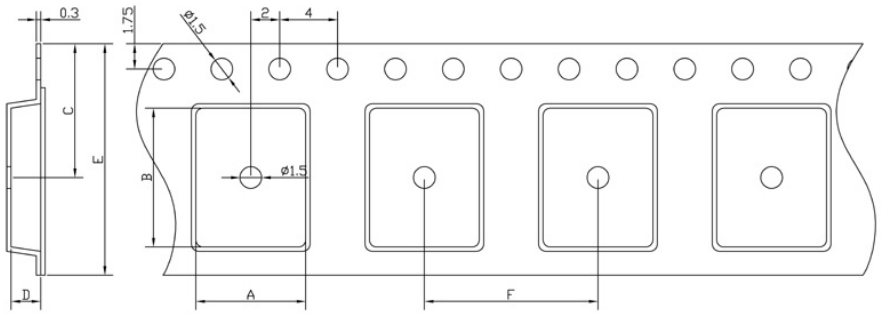
2) speed : 300mm/min

3) force : 20~70g



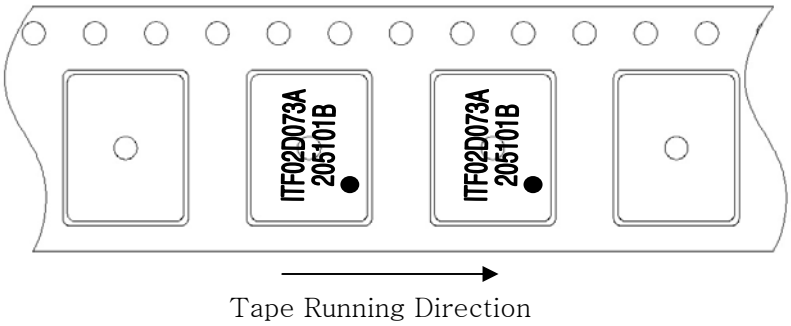
SAW Bandpass Filter 205101B

Carrier Tape Dimensions [unit : mm]

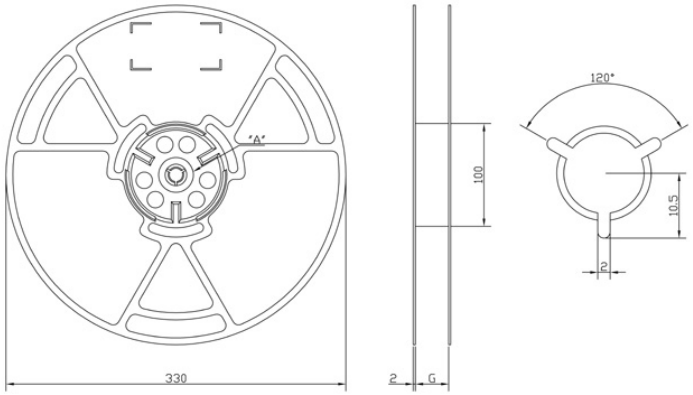


A	7.00 ± 0.1
B	13.80 ± 0.1
C	13.25 ± 0.1
D	1.95 ± 0.1
E	24.00 ± 0.1
F	12.00 ± 0.1

Part Direction



Reel Dimensions [unit : mm]



G = 24.4 mm