



## SAW Bandpass Filter Specifications

Unit Name	SAW Bandpass Filter
Part Name	SY205101B
Date	November 26, 2004

Written by	Checked by	Approved by



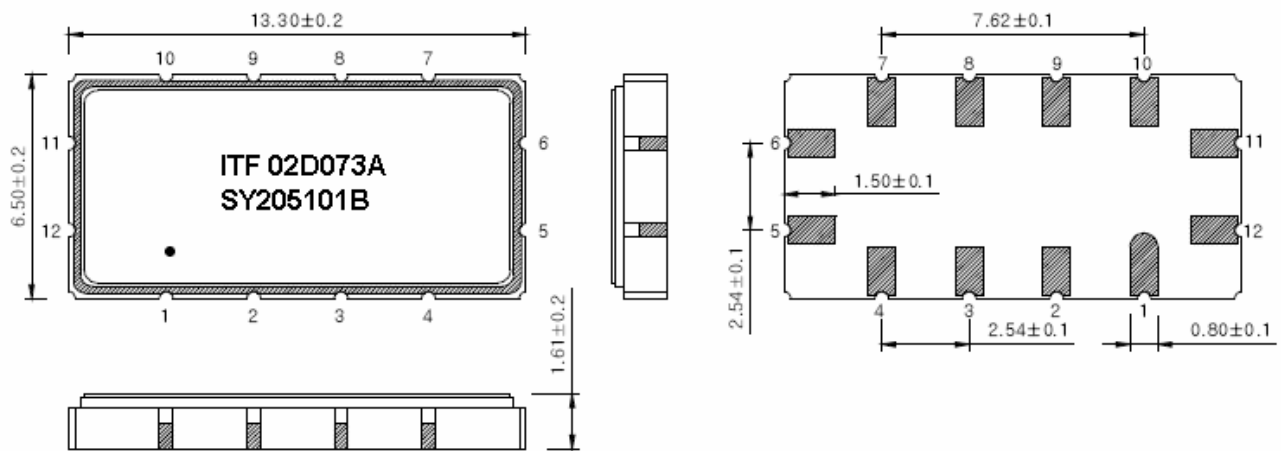
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**Features:**

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

**Package Dimension**



**Package S1365**

Dimensions shown are nominal in millimeters

Body: Al<sub>2</sub>O<sub>3</sub> 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

Electrostatic Sensitive Device (ESD)

## Electrical Specification

Fc = 70.0MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

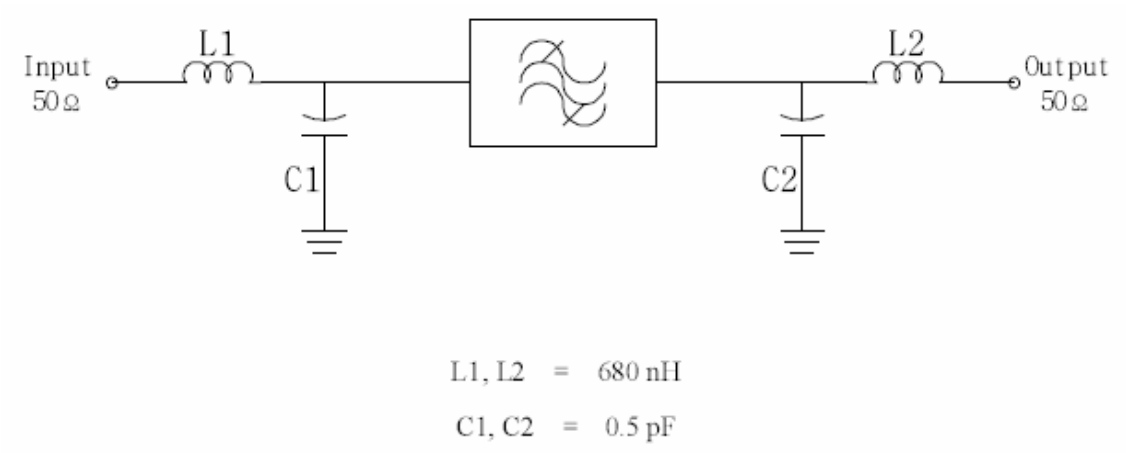
		Minimum	Typical	Maximum
Center Frequency at room temp.	MHz	69.955		70.044
Insertion Loss	dB	-		6.0
3dB Bandwidth	MHz	0.030		-
40dB Bandwidth	MHz	-		0.200
Absolute Group Delay at Fc	Usec	-		-
Group Delay Variation at 3dB	Usec	-		-
Relative Attenuation				
0.3 MHz ... 69.8 MHz	dB	50	55	-
70.2 MHz ... 71.0 MHz		35	40	
71.0 MHz ... 75.0 MHz		50	55	
Temperature Coefficient of Frequency	ppm/°C <sup>2</sup>		-0.03	-

### Notes:

- 1) All specifications are based on the matching schematic shown below, measured by an Agilent Network analyzer and full 2 port calibration.
- 2) All attenuation measurements are measured relative to insertion loss.

## Matching Schematic

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



## Marking Configuration

ITF02D073<sup>1)</sup>A<sup>2)</sup>

SY205101B<sup>3)</sup>

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

# Typical Performance (at +25°C)

