SAW Bandpass Filter Specifications

Unit Name	SAW Bandpass Filter
Part Name	SY206131B
Date	April 13, 2004

Written by	Checked by	Approved by

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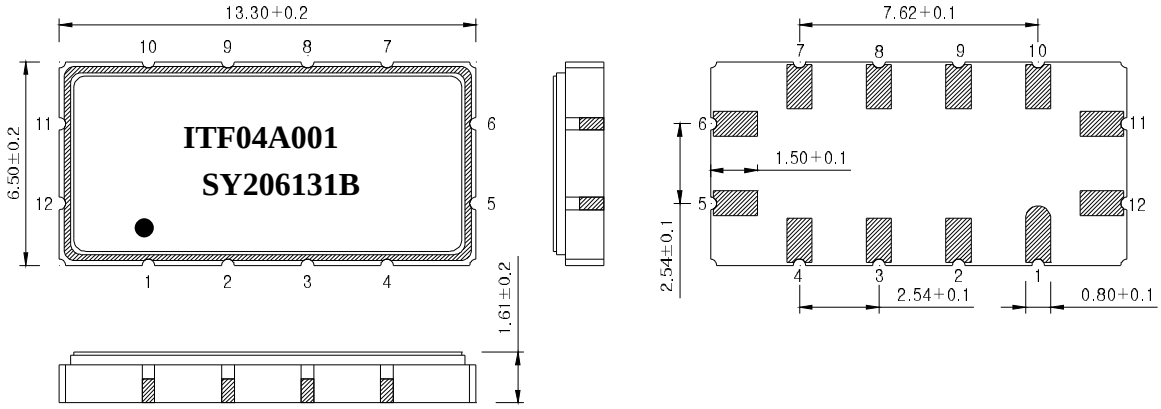
1. Features

- IF Bandpass Filter
- Low-Loss Filter
- Single-Ended Operation
- Ceramic Surface Mount Device (SMD) Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimensions



Package : S1365

Pad Configuration	
11	Input
5	Output
6, 12	Ground
Other	Case ground

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

3. Specifications

Fo = 70 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

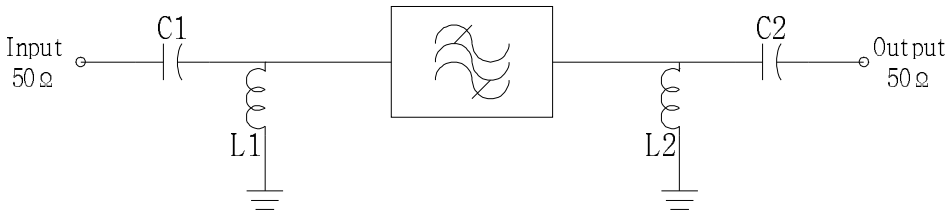
		Minimum	Typical	Maximum
Center Frequency	MHz	69.85	70.0	70.15
Insertion Loss	dB	-	9.4	10.5
1dB Bandwidth	MHz	7.2	7.4	-
3dB Bandwidth	MHz	7.7	7.9	-
40dB Bandwidth	MHz	-	9.9	10.2
Amplitude Ripple (Fo +/- 3.4 MHz)	dB	-	0.4	1.0
Group Delay Variation (Fo +/- 3.4 MHz)	nsec	-	60	120
Absolute Delay	usec	-	1.3	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

Notes :

1) All specifications are based on the matching schematic shown below
2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
3) All attenuation measurements are measured relative to insertion loss

4. Matching Schematic

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



C1 = 100 pF, C2 = 36 pF

L1 = 56 nH, L2 = 39 nH

5. Marking Configuration

ITF 04A001[1)]

SY206131B[2)]

● [3)]

1) Lot Number

2) Part Number

3) Pad Number 1 Index

6. Typical Performance (at +25℃)