SAW Bandpass Filter Specifications

Unit Name	SAW Bandpass Filter
Part Name	SY274351B
Date	October 15, 2004

Written by	Checked by	Approved by

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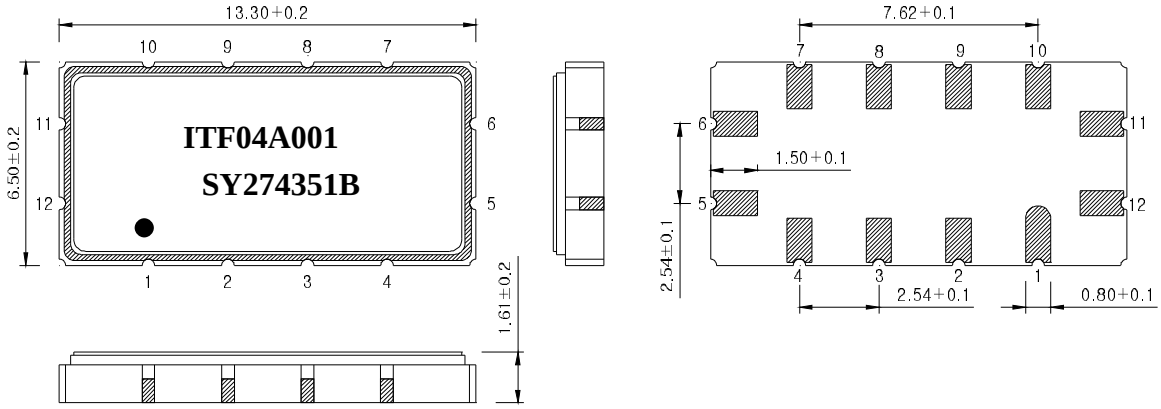
1. Features

- 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

Operating temperature range : -25 to + 70℃		Minimum	Typical	Maximum
Center Frequency	MHz	69.55	70.0	70.45
Insertion Loss	dB	-	20.5	22.0
1dB Bandwidth	MHz	40.0	42.2	-
3dB Bandwidth	MHz	43.0	43.8	-
40dB Bandwidth	MHz	-	50.0	50.8
Amplitude Ripple (Fo +/- 19.75 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 19.75 MHz)	nsec	-	20	50
Absolute Delay	usec	-	0.95	-
Relative Attenuations				
0 ~ 45.35 MHz	dB	40	50	-
97.05 ~ 120 MHz	dB	35	43	-
Temperature Coefficient of Frequency	ppm/°C	-	-82	-

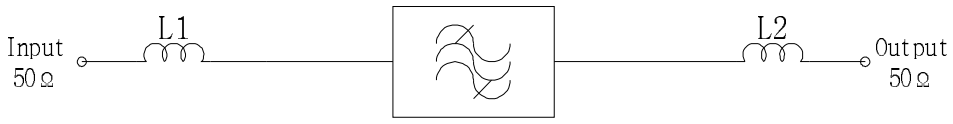
Room temperature : + 25 ℃		Minimum	Typical	Maximum
Center Frequency	MHz	69.8	70.0	70.2
Insertion Loss	dB	-	20.5	21.5
1dB Bandwidth	MHz	40.0	42.2	-
3dB Bandwidth	MHz	43.0	43.8	-
40dB Bandwidth	MHz	-	50.0	50.8
Amplitude Ripple (Fo +/- 20.0 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 20.0 MHz)	nsec	-	20	50
Absolute Delay	usec	-	0.95	-
Relative Attenuations				
0 ~ 45.6 MHz	dB	40	50	-
96.8 ~ 120 MHz	dB	35	43	-
Temperature Coefficient of Frequency	ppm/°C	-	-82	-

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
3) Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4) All attenuation measurements are measured relative to insertion loss

4. Matching Schematic

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



L1 = 100 nH, L2 = 120 nH

5. Marking Configuration

ITF 04A001[1)]
SY274351B[2)]
● [3)]

1) Lot Number
2) Part Number
3) Pad Number 1 Index

6. Typical Performance (at +25℃)