

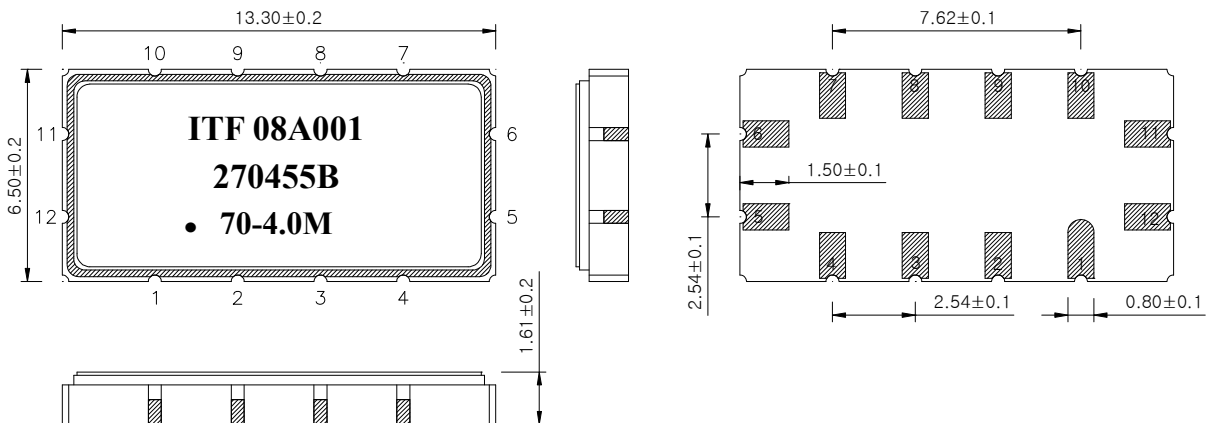
SAW Bandpass Filter 270455B



1. Features

- IF Bandpass Filter
- High Attenuation
- Single-Ended Operation
- SMD Package
- Maximum Storage Temperature Range : -40 °C ~ 85 °C
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : S1365

Dimensions shown are nominal in millimeters

Body : Al₂O₃

Lid : Kovar, Ni Plated

Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

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

	ITF Co., Ltd. 102-901, Bucheon Technopark 364, Samjeong-Dong, Ojeong-Gu, Bucheon-City, Gyeonggi-Do, Korea 421-809	Part No.	270455B	
		Rev. Date	2008-10-30	
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3. Specifications

Fo = 70.0 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Room temperature range : +25°C		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	70.0	-
Insertion Loss	dB	-	24.7	25.5
1dB Bandwidth	MHz	4.35	4.45	-
3dB Bandwidth	MHz	-	4.9	-
40dB Bandwidth	MHz	-	6.67	6.85
Amplitude Ripple (Fo +/- 2.0 MHz)	dB	-	0.45	1.0
Group Delay Variation (Fo +/- 2.0 MHz)	nsec	-	70	150
Absolute Delay	usec	-	2.08	-
Ultimate Rejection	dB	42	48	-
Temperature Coefficient of Frequency	ppm/°C	-	-18	-

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

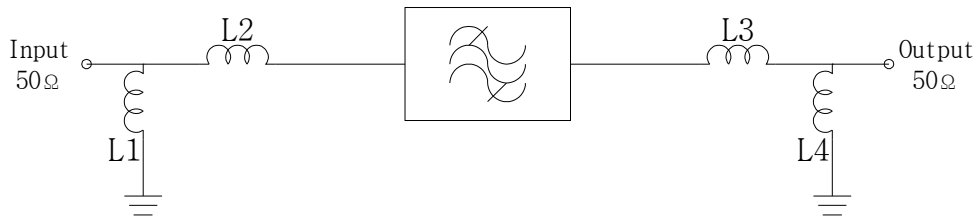
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4. Matching Schematic

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



L1 = 56nH, L2 = 150nH

L3 = 150nH, L4 = 82nH

5. Marking Configuration

ITF¹⁾08A001²⁾

270455B³⁾

70⁴⁾-4.0M⁵⁾

●⁶⁾

1) Manufacturer name


2) Lot Number

3) Part Number

4) Center frequency

5) 1dB-Bandwidth

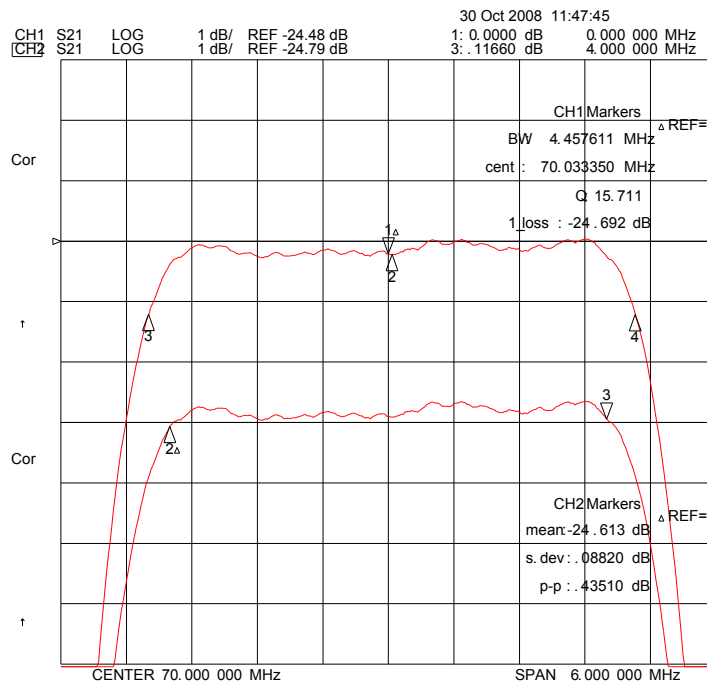
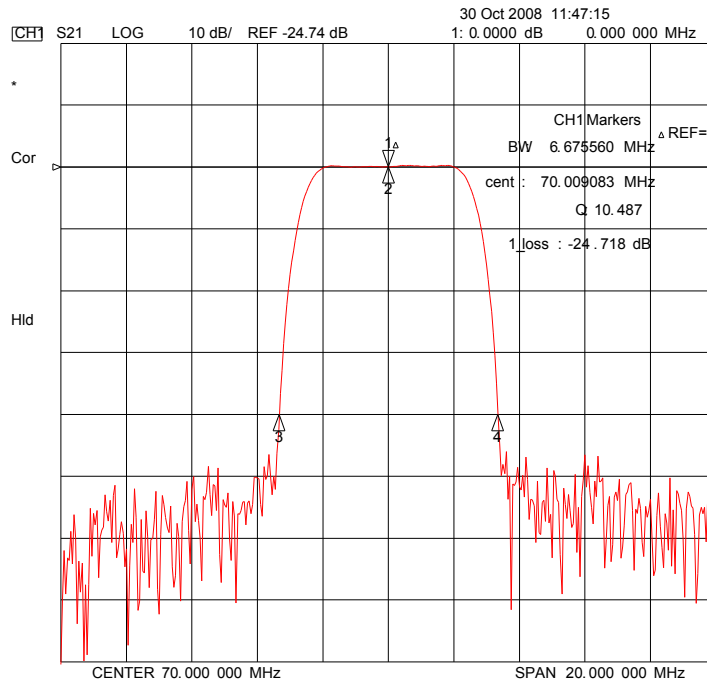
6) Pad Number 1 Index

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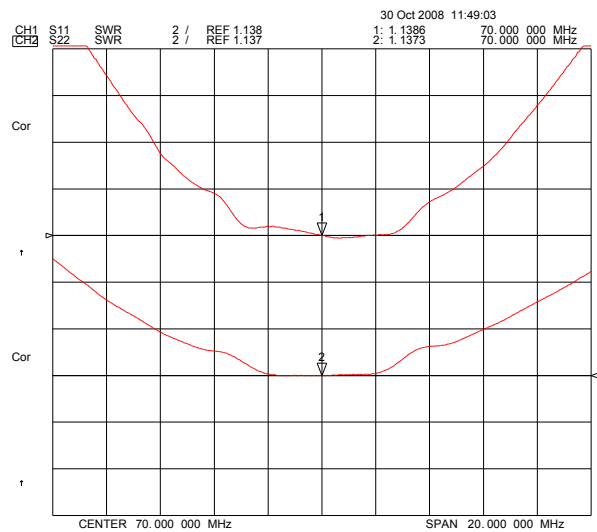
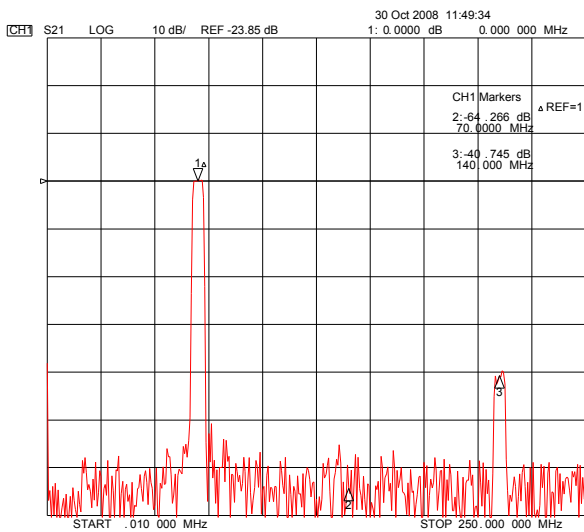
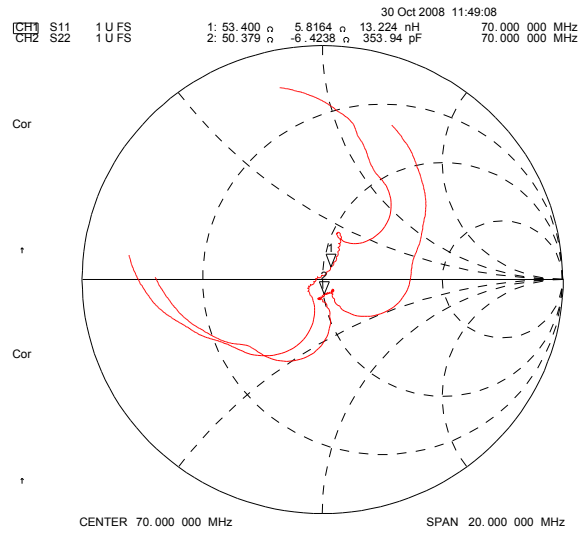
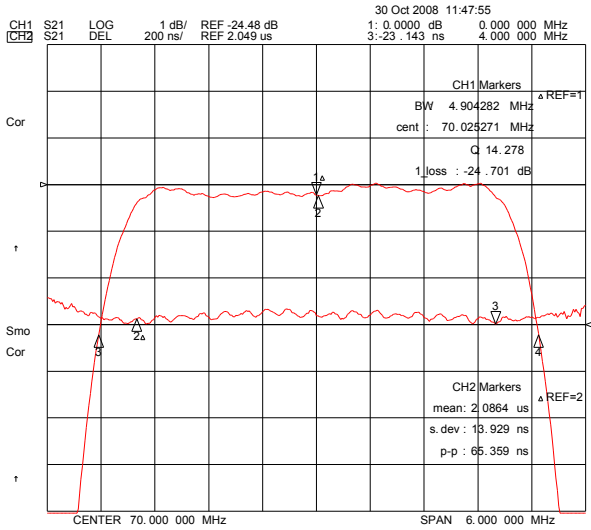


6. Typical Performance (at +25°C)



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