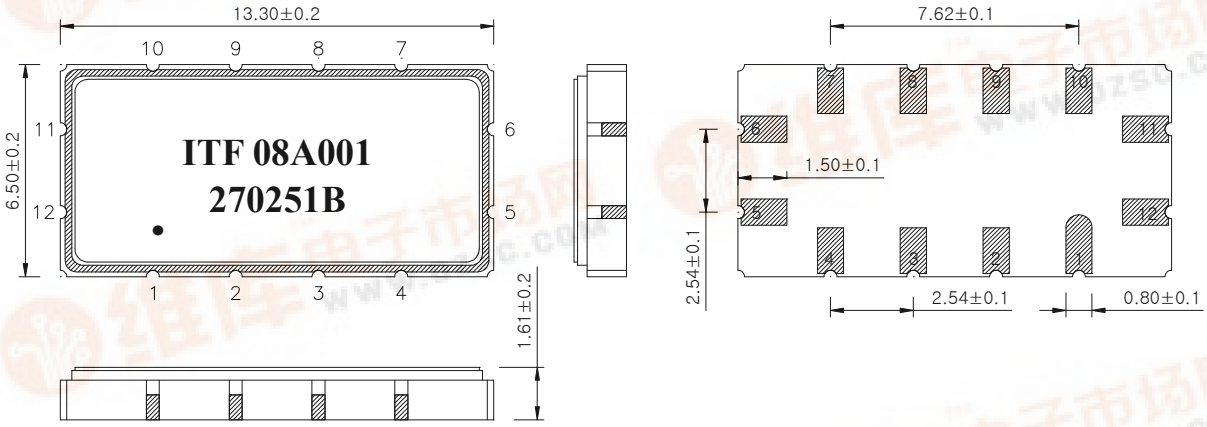
Bandpass Filter 270251B

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 Dimension



Package : S1365

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

Dimensions shown are nominal in millimeters

Body : Al_2O_3
Lid : Kovar, Ni Plated
Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

3. Specifications

Fo = 70.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -40℃ ~ +85℃		Minimum	Typical	Maximum
Center Frequency (Fc)	MHz	-	70.0	-
Insertion Loss	dB	-	7.0	10.0
1dB Bandwidth	MHz	1.6	2.1	-
3dB Bandwidth	MHz	-	2.73	-
40dB Bandwidth	MHz	-	4.9	5.5
Amplitude Ripple (Fo +/- 0.4 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 0.4 MHz)	nsec	-	80	150
Absolute Delay	usec	-	1.23	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency (TCF)	ppm/°C	-	- 86	-

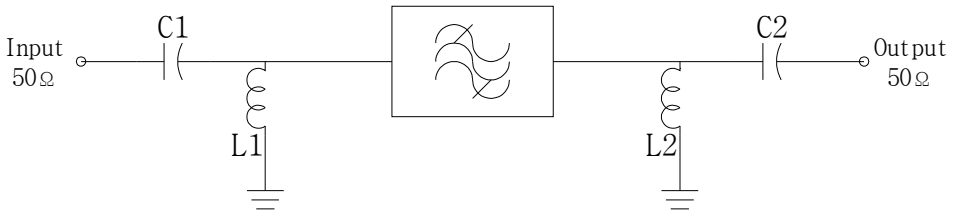
Room temperature : + 25 ℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	7.0	9.5
Amplitude Ripple (Fo +/- 0.8 MHz)	dB	-	0.7	1.0
Group Delay Variation (Fo +/- 0.8 MHz)	nsec	-	80	150

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)



C1 = C2 = 56 pF

L1 = 120 nH, L2 = 82 nH

5. Marking Configuration

ITF[1] 08A001[2]

270251B[3]

● [4]

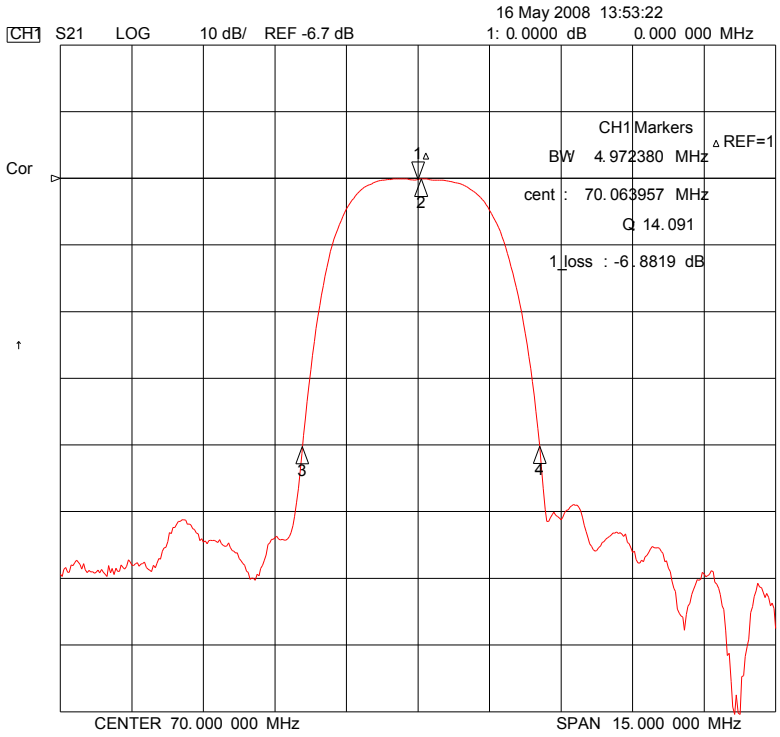
1) Manufacturer name

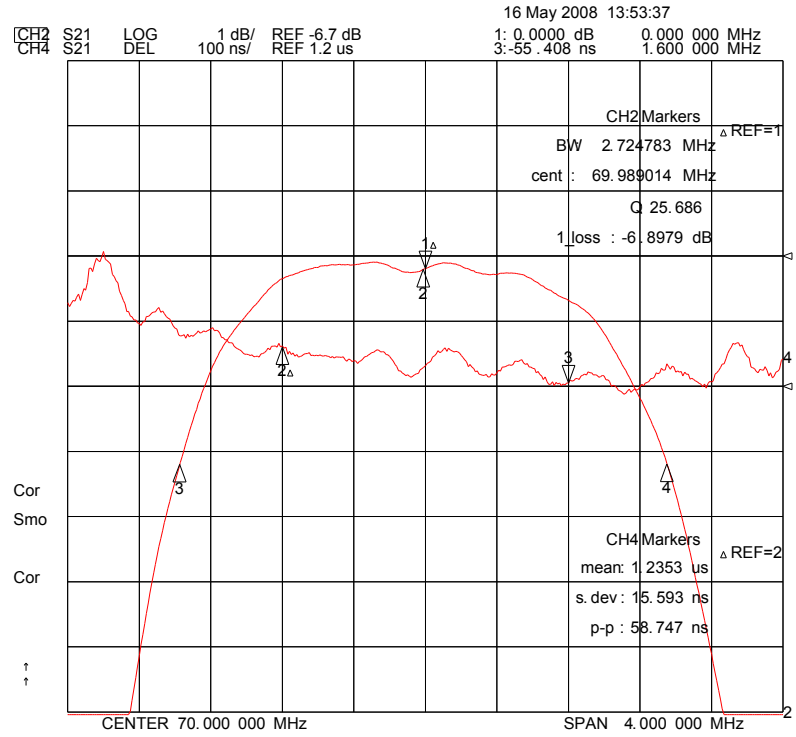
2) Lot Number

3) Part Number

4) Pad Number 1 Index

6. Typical Performance (at +25℃)





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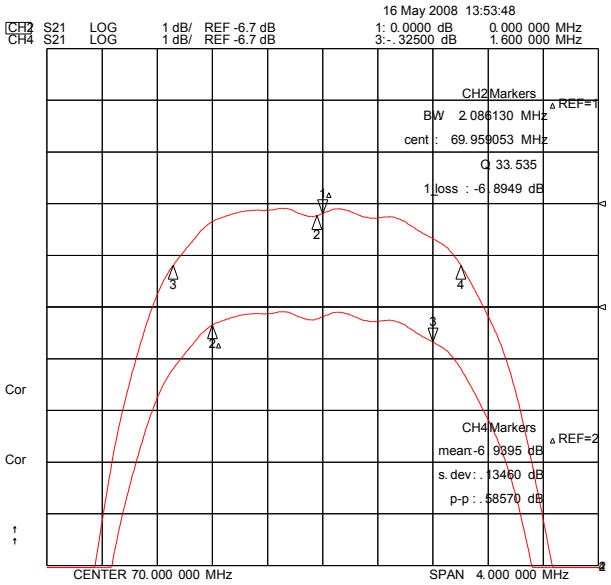

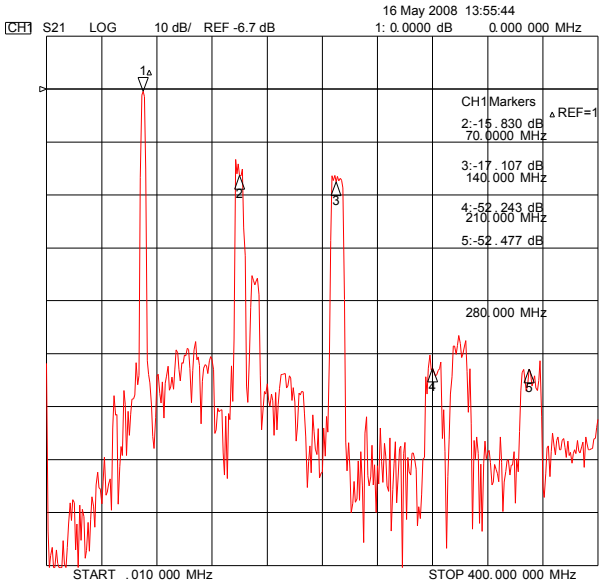

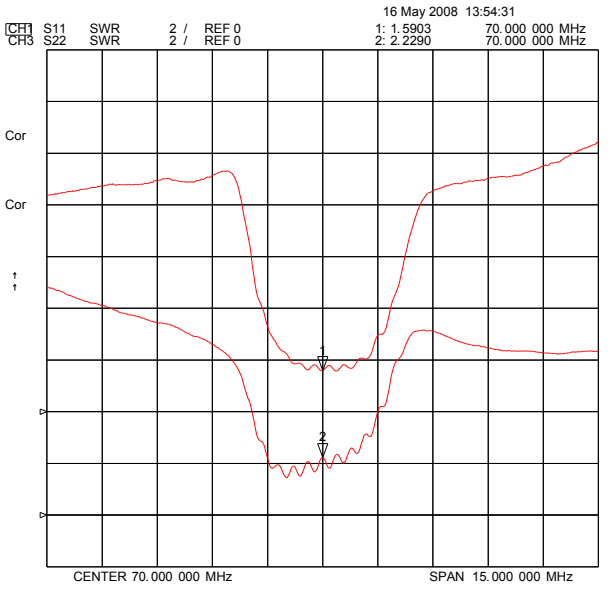

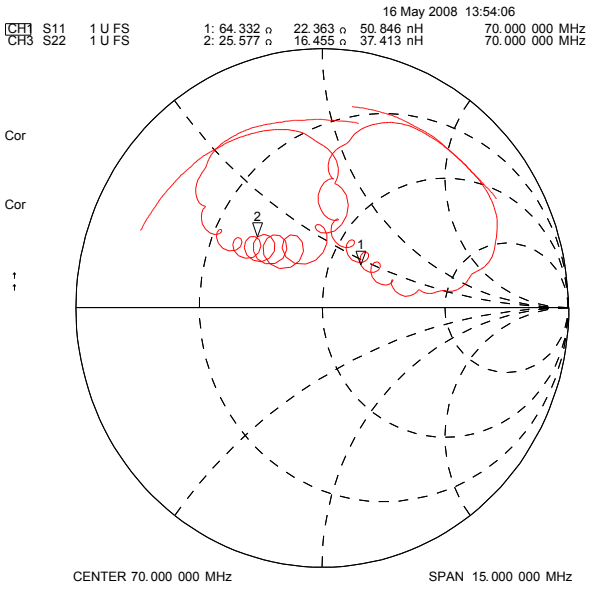

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