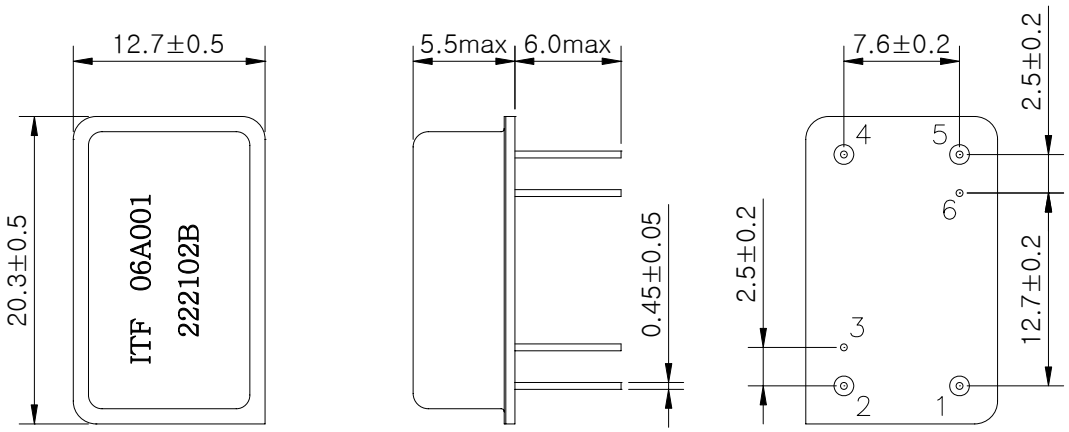
Bandpass Filter 222102B

1. Features

- IF bandpass filter
- Low-Loss Filter
- Single-ended operation
- DIP Package
- Maximum Storage Temperature Range : -40℃ ~ 85℃
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : D2012

Pin Configuration	
1	Input
5	Output
Other	ground

Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated
Cap : Cu and Cr Alloy, Ni plated
Terminations : Kover, Au plated

3. Specifications

Fo =60.0 MHz

Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

Operating temperature range : -10℃ ~ +70℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	60.0	-
Insertion Loss	dB	-	14.5	17.0
1dB Bandwidth	MHz	20.0	20.7	-
3dB Bandwidth	MHz		21.5	-
40dB Bandwidth	MHz	-	24.8	25.0
Amplitude Ripple (Fo +/- 9.75MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 9.75 MHz)	nsec	-	40	80
Absolute Delay	usec	-	1.29	-
Ultimate Rejection	dB	40	45	
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

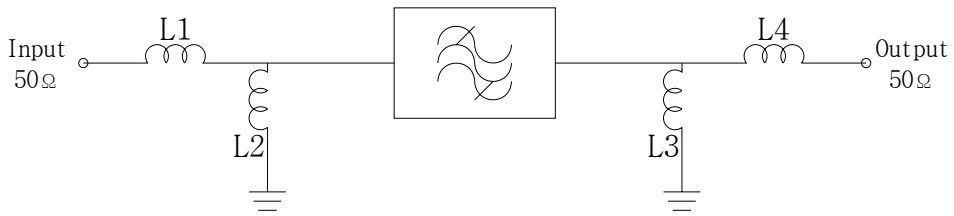
Room temperature : + 25 ℃		Minimum	Typical	Maximum
Center Frequency	MHz	-	60.0	-
Insertion Loss	dB	-	14.5	16.5
Amplitude Ripple (Fo +/- 10.0 MHz)	dB	-	0.6	1.0
Group Delay Variation (Fo +/- 10.0 MHz)	nsec	-	40	80

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 = L4 = 120nH

L2 = 180 nH, L3 = 220nH

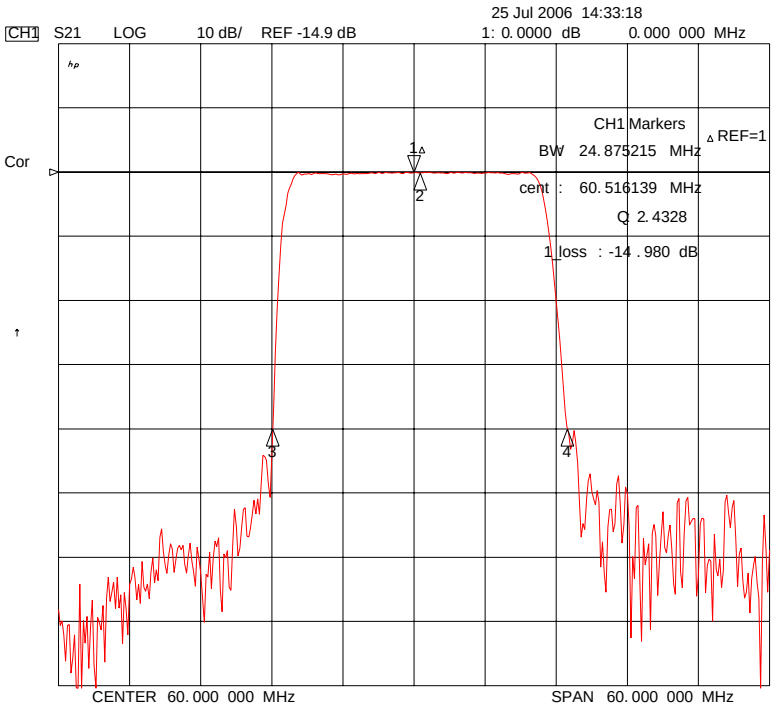
5. Marking Configuration

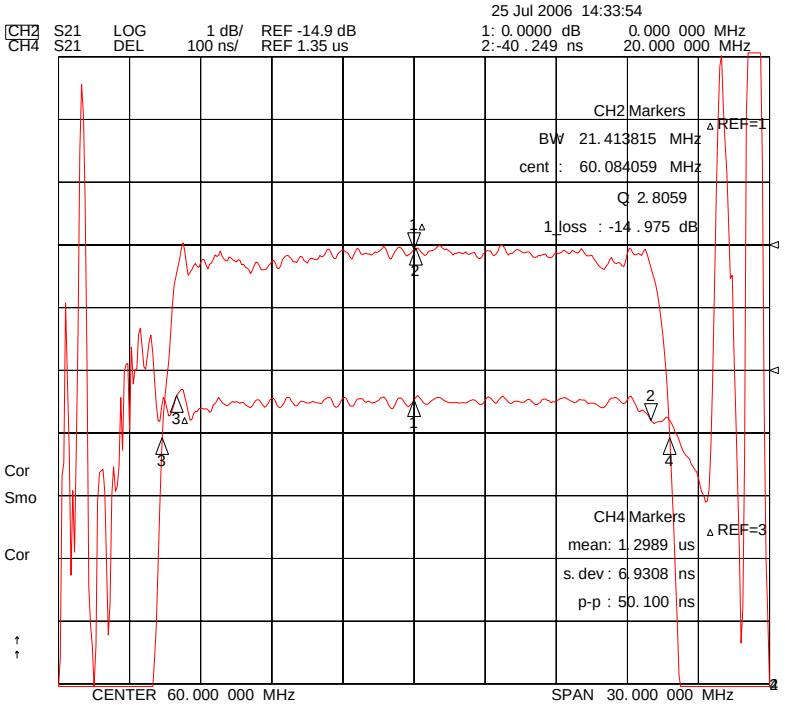
ITF[1] 06A001[2]

222102B[3]

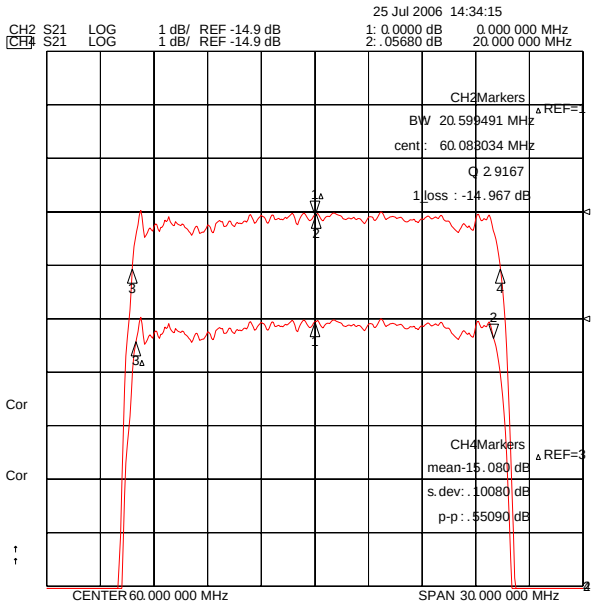
1) Manufacturer name
2) Lot Number
3) Part Number

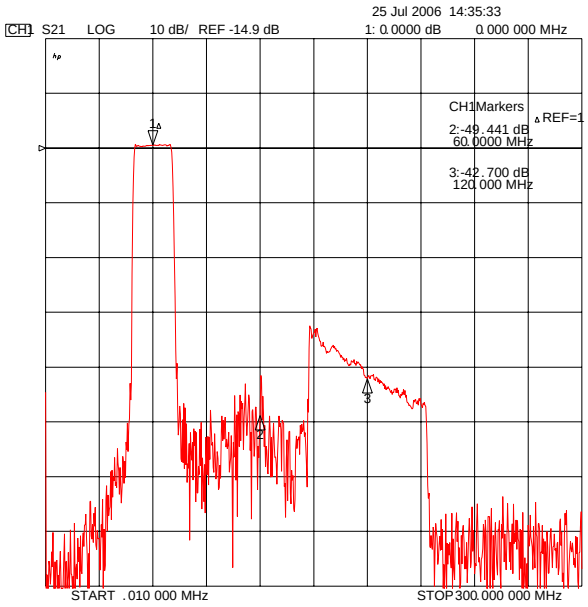
6. Typical Performance (at +25℃)

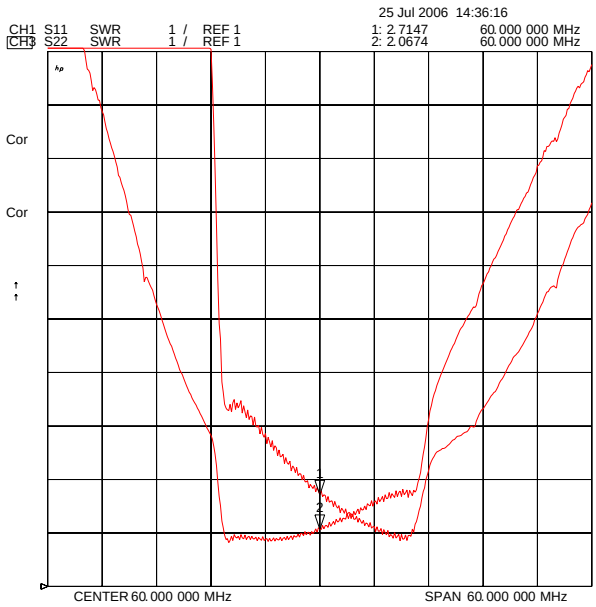


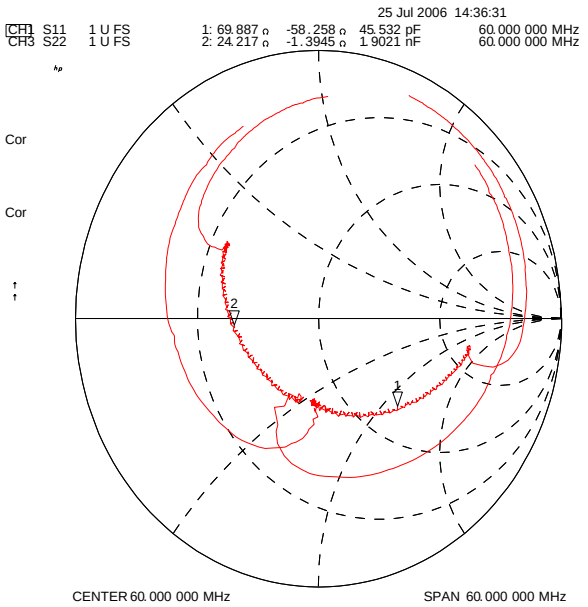


Bandpass Filter 222102B









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