93.94 MHz SAW Filter
Part Number 243501B

1. Features

- Typical 1dB bandwidth of 35.5 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

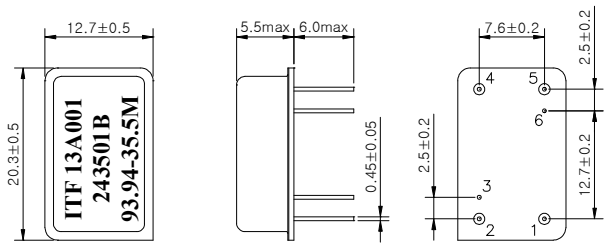
2. Electrical Specifications

Source and Load Impedance = 50Ω

Operating Temperature : -20℃ ~ +80℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	93.94	-
Insertion Loss	dB	-	27.5	29.0
1 dB Bandwidth	MHz	35.2	35.5	-
3dB Bandwidth	MHz	-	35.85	-
40dB Bandwidth	MHz	-	37.35	37.6
Amplitude Ripple (fo ± 17.0 MHz)	dB	-	0.6	1.0
Group Delay Variation (fo ± 17.0 MHz)	nsec	-	25	60
Absolute Delay	usec	-	1.87	-
Ultimate Rejection	dB	48	52	-
Temperature Coefficient of Frequency	ppm/℃		-72	

Room Temperature : +25℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	27.5	29.0
Amplitude Ripple (fo ± 17.38 MHz)	dB	-	0.6	1.0
Group Delay Variation (fo ± 17.38 MHz)	nsec	-	25	60

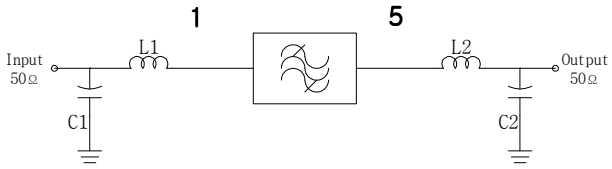
D2012 Package Dimension



Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated
Cap : Cu & Cr Alloy, Ni Plated
Termination : Kovar, Au Plated

Matching Schematic



L1 = L2 = 120nH, C1 = 16pF, C2 = 18pF

Pin Configuration			
Input	1	Ground	2,4
Output	5	Others	Ground

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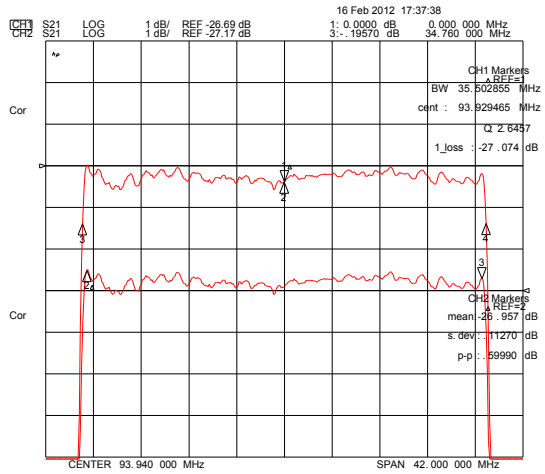
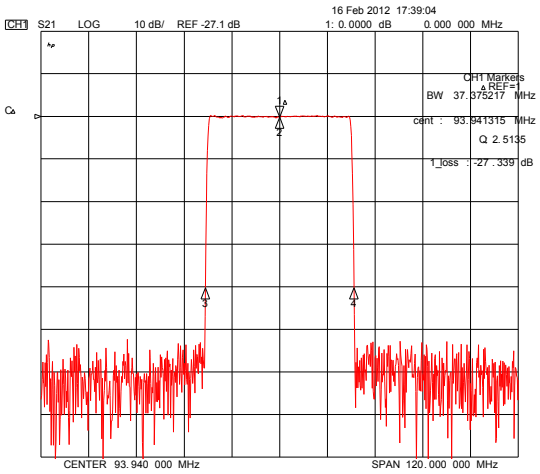
2013. 03. 25
Rev 1.0

3. Typical Performance (at +25℃)

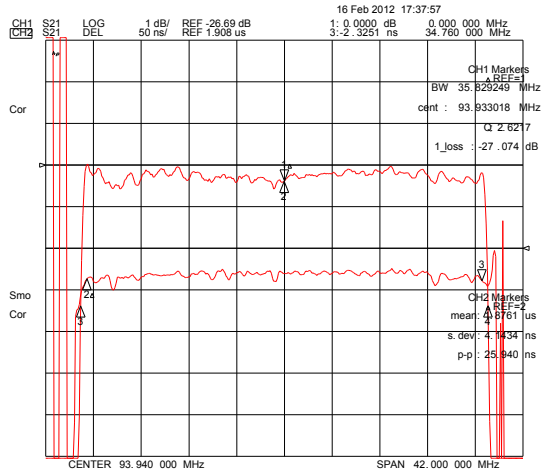
1dB Bandwidth & Ripple



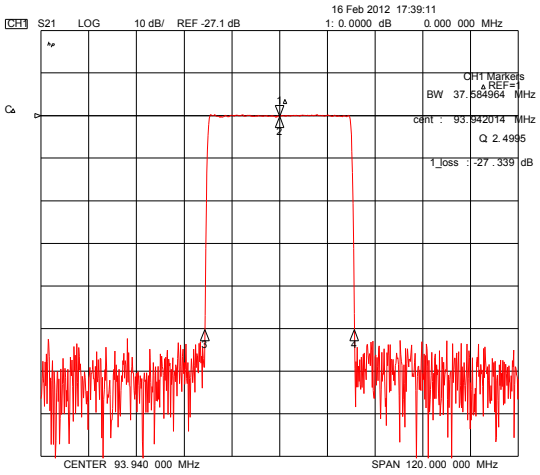
40dB Bandwidth



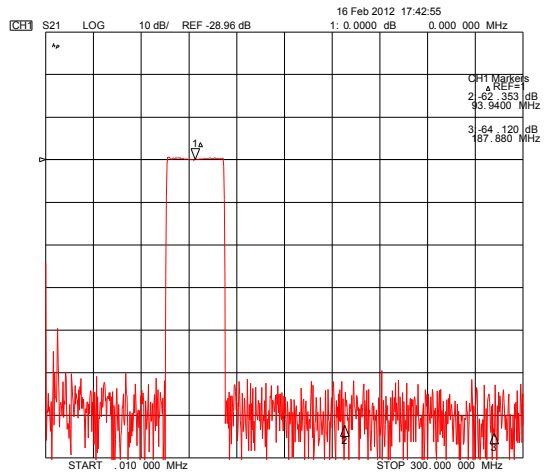
3dB Bandwidth & Group Delay



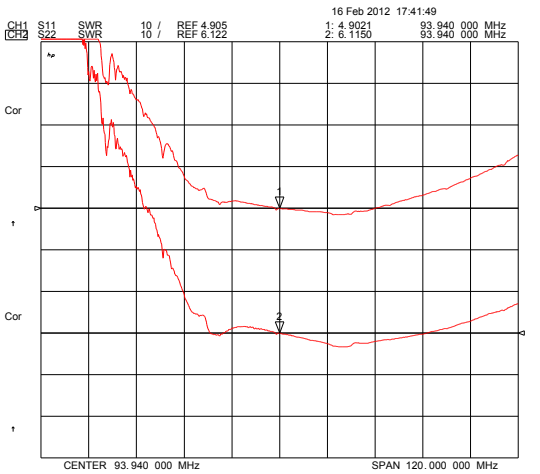
50dB Bandwidth



Wideband Properties



SWR(S11 & S22)



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