89.9 MHz SAW Filter
Project name 242905B

1. Features

- Typical 1dB bandwidth of 29.5 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

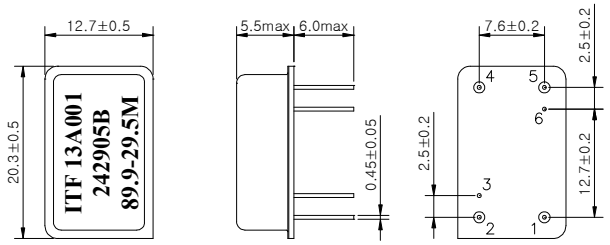
Tested by SGS Testing Korea

2. Electrical Specifications

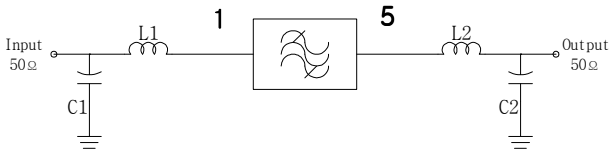
Source and Load Impedance = 50Ω

Operating Temperature : +25℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	89.9	-
Insertion Loss	dB	-	25.0	27.0
1dB Bandwidth	MHz	29.30	29.50	-
3dB Bandwidth	MHz	-	29.81	-
40dB Bandwidth	MHz	-	31.20	31.35
Amplitude Ripple (fo ± 14.45 MHz)	dB	-	0.55	1.0
Group Delay Variation (fo ± 14.45 MHz)	nsec	-	25	50
Absolute Delay	usec	-	2.11	-
Ultimate Rejection	dB	50	55	-
Maximum input Power	dBm	-	-	10
Temperature Coefficient of Frequency	**ppm/℃**	-	-72	-

D2012 Package Dimension



Matching Schematic



L1 = 150nH, L2 = 120nH, C1 = 24pF, C2 = 18pF

Dimensions shown are nominal in millimeters

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

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

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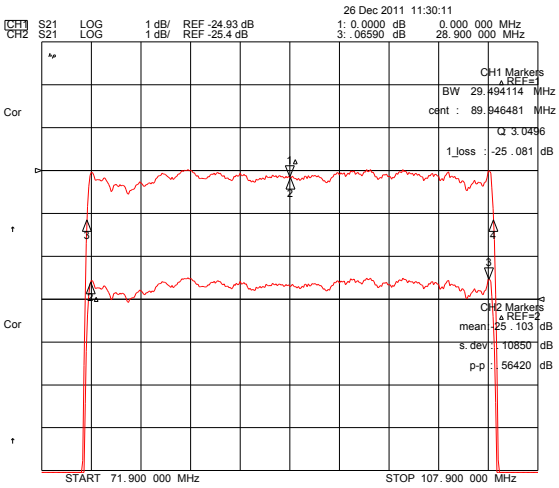
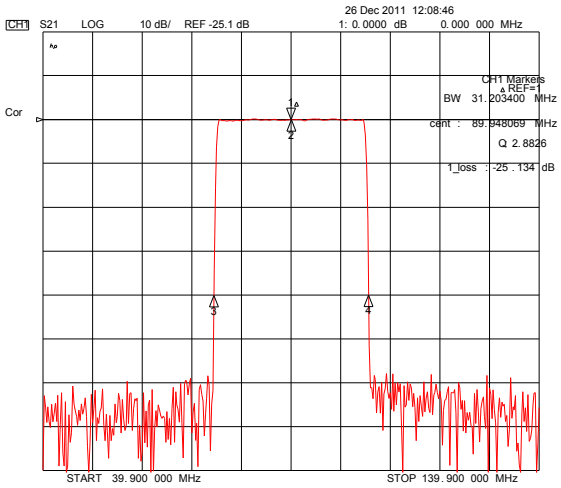
2013. 03. 27
Rev 1.0

3. Typical Performance (at +25℃)

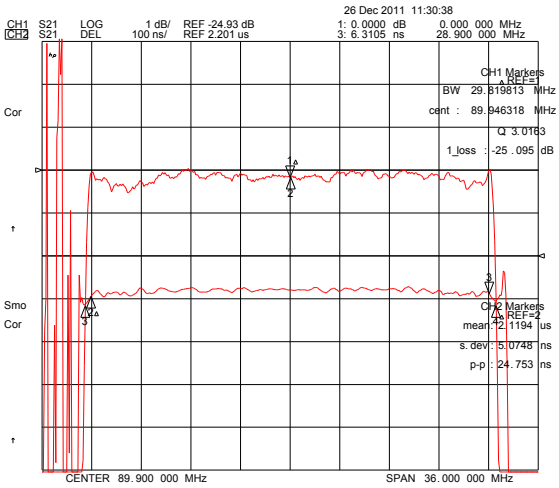
1dB Bandwidth & Ripple(Fo ± 14.45 MHz)



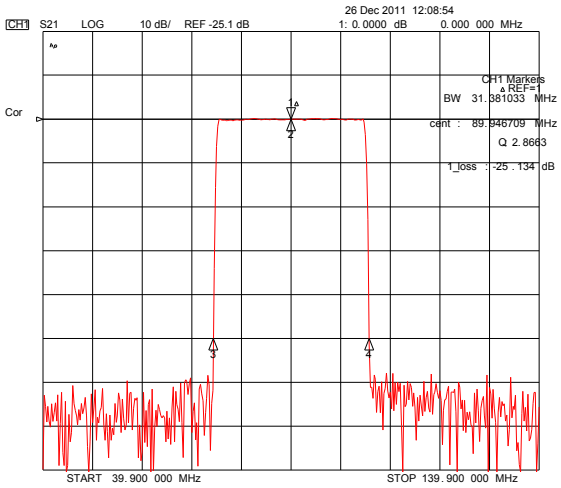
40dB Bandwidth



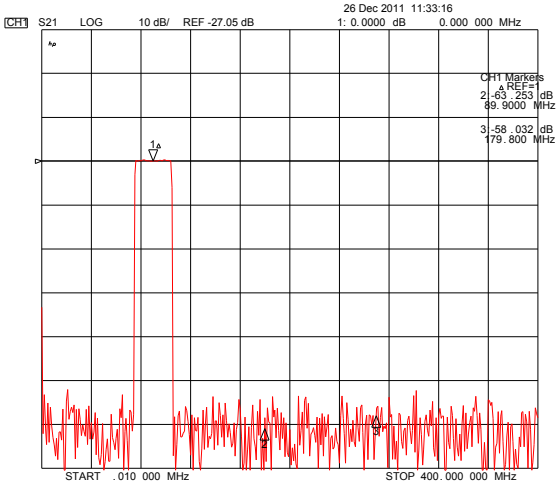
3dB Bandwidth & Group Delay(Fo ± 14.45 MHz)



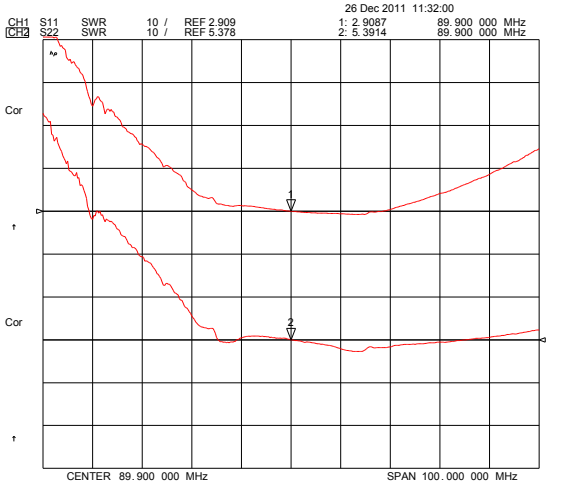
50dB Bandwidth



Wide band Properties



SWR(S11 & S22)



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