86.5 MHz SAW Filter
Part Number 242009B

1. Features

- Typical 1dB bandwidth of 20.3 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

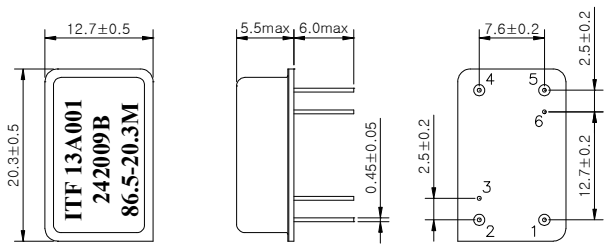
2. Electrical Specifications

Source and Load Impedance = 50Ω

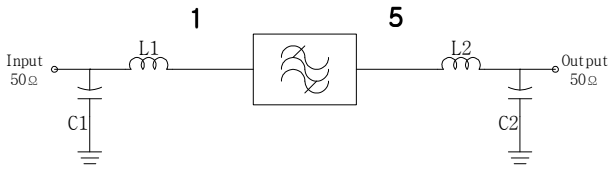
Operating Temperature : −30℃ ~ + 80℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	86.5	-
Insertion Loss	dB	-	22.8	24.5
1dB Bandwidth	MHz	20.2	20.35	-
3dB Bandwidth	MHz	-	20.73	-
40dB Bandwidth	MHz	-	22.39	22.55
Amplitude Ripple (fo±9.508MHz)	dB	-	0.55	1.0
Group Delay Variation (fo±9.508MHz)	nsec	-	30	60
Absolute Delay	usec	-	1.81	-
Ultimate Rejection	dB	50	55	-
Temperature Coefficient of Frequency	**ppm/℃**	-	-72	-

Room Temperature : + 25℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	22.8	24.5
Amplitude Ripple (fo ± 9.85 MHz)	dB	-	0.55	1.0
Group Delay Variation (fo ± 9.85 MHz)	nsec	-	30	60

D2012 Package Dimension



Matching Schematic



L1 = 100nH, L2 = 82nH, C1 = 12pF, C2 = 10pF

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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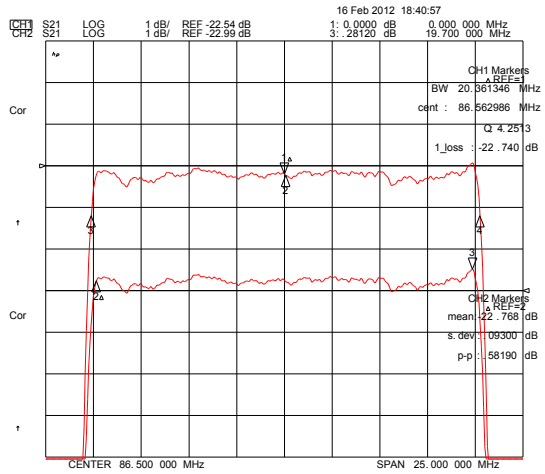
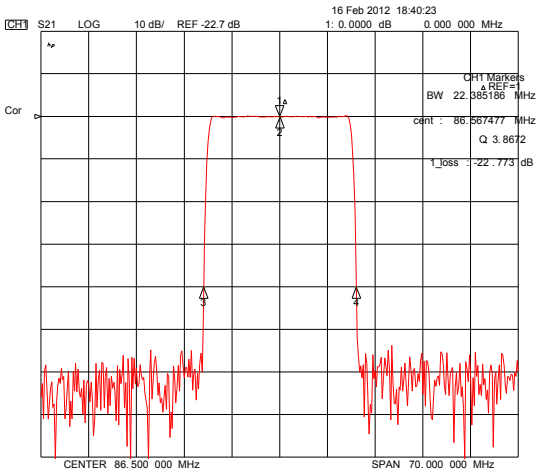
Rev 1.0

3. Typical Performance (at +25℃)

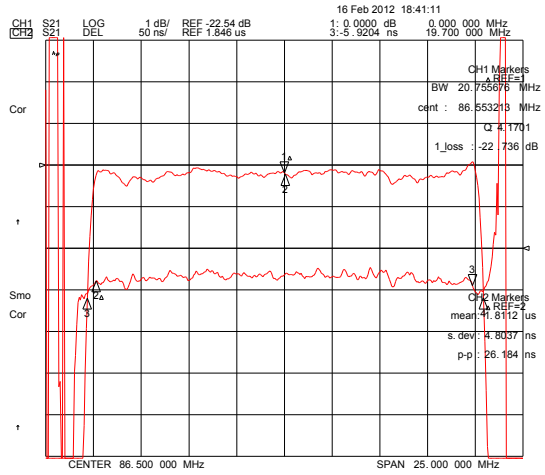
1dB Bandwidth & Ripple



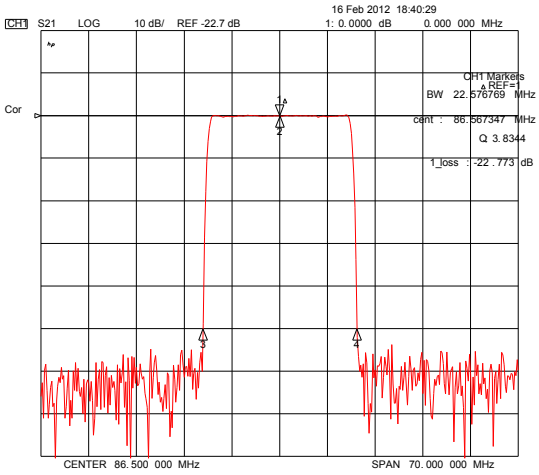
40dB Bandwidth



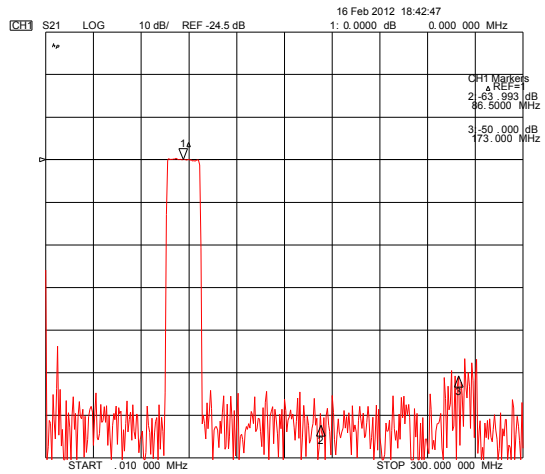
3dB Bandwidth & Group Delay



50dB Bandwidth



Wideband Properties



SWR(S11 & S22)