109.4 MHz & 161.7 MHz SAW Filter

Part Number 2506D01

1. Features

- Typical 3dB bandwidth of 54.0 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

2. Electrical Specifications

2-1 F_1 Electrical Specification

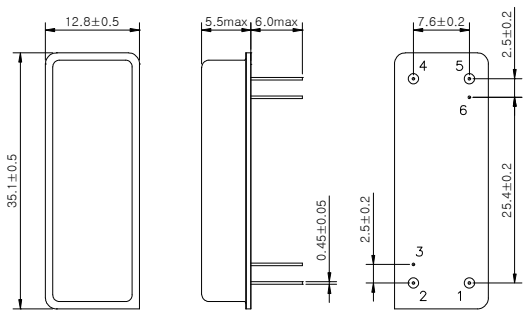
Room Temperature : +25℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	109.25	109.4	109.55
Insertion Loss	dB	-	26.0	28.0
3dB Bandwidth	MHz	5.8	6.0	-
40dB Bandwidth	MHz	-	7.65	8.0
Amplitude Ripple ($F_1 \pm 2.4$ MHz)	dB	-	0.5	1.2
Group Delay Variation ($F_1 \pm 2.4$ MHz)	nsec	-	40	80
Absolute Delay ($F_1 \pm F_2$)	usec	-	1.99	-
Ultimate Rejection	dB	45	50	-
Temperature Coefficient of Frequency	ppm/℃	-	-72	-

2-2 F_2 Electrical Specification

Room Temperature : +25℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	161.55	161.7	161.85
Insertion Loss	dB	-	26.0	28.0
3dB Bandwidth	MHz	4.8	5.1	-
40dB Bandwidth	MHz	-	6.85	7.1
Amplitude Ripple ($F_1 \pm 1.9$ MHz)	dB	-	0.5	1.2
Group Delay Variation ($F_1 \pm 1.9$ MHz)	nsec	-	40	80
Absolute Delay ($F_1 \pm F_2$)	usec	-	1.99	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency	ppm/℃	-	-72	-

Input POWER : +10dBm

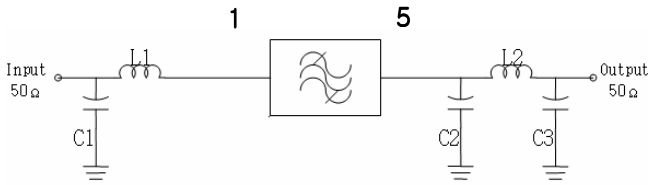
D3512 Package Dimension



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 = 3.9nH, L2 = 15nH

C1 = 51pF, C2 = 20pF, C3 = 51pF

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

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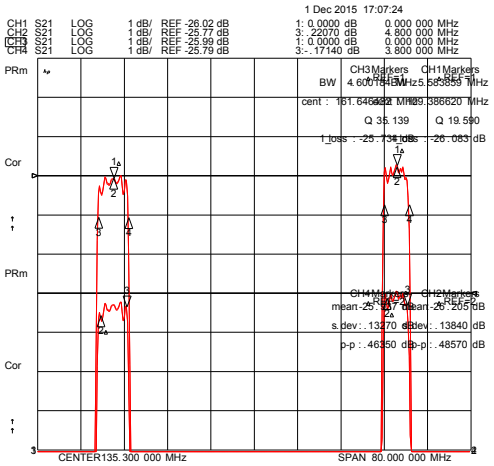
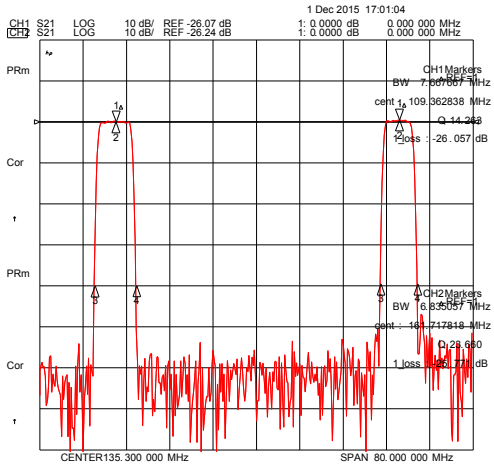
Rev 1.1

3. Typical Performance (at +25℃)

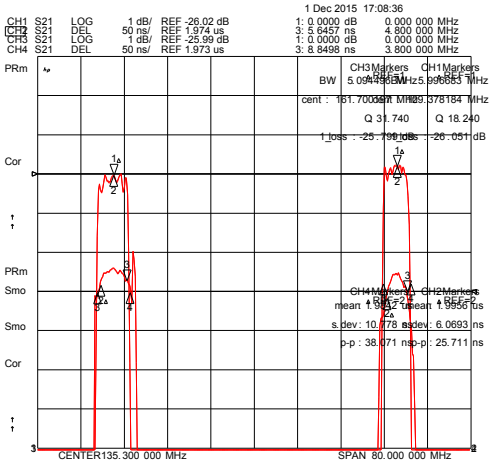
1dB Bandwidth & Ripple



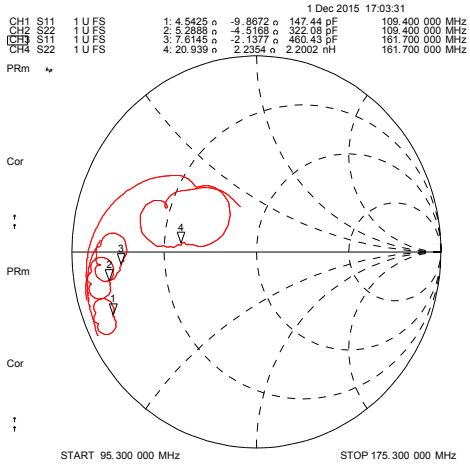
40dB Bandwidth



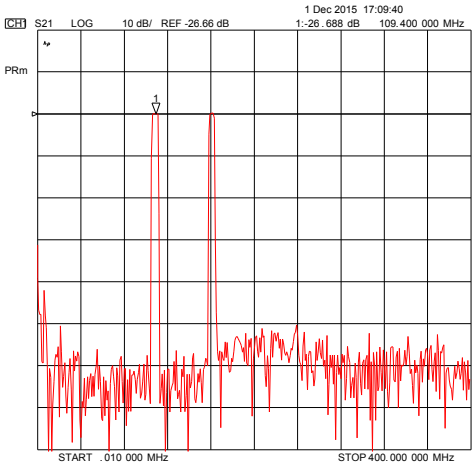
3dB Bandwidth & Group Delay



Smith Chart(S11 & S22)



Wideband Properties



SWR(S11 & S22)