74.7625 MHz SAW Filter

Part Number 231503B

1. Features

- Typical 1dB bandwidth of 15.4 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

2. Electrical Specifications

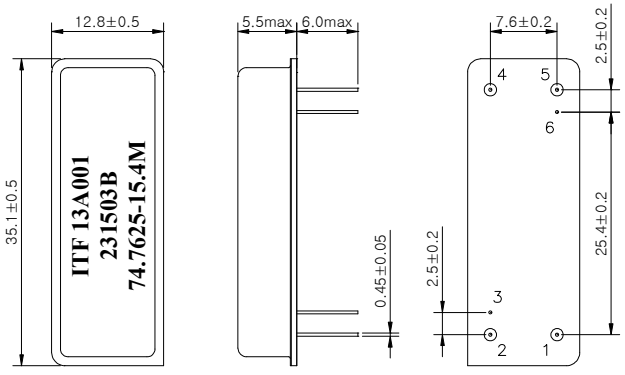
Source and Load Impedance = 50Ω

Operating Temperature : -30℃ ~ +80℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	74.7625	-
Insertion Loss	dB	-	23.5	25.0
1dB Bandwidth	MHz	15.25	15.4	-
3dB Bandwidth	MHz	-	15.6	-
25dB Bandwidth	MHz	-	16.34	16.45
40dB Bandwidth	MHz	-	16.54	-
Amplitude Ripple (fo ± 7.2375 MHz)	dB	-	0.6	1.0
Group Delay Variation (fo ± 7.2375 MHz)	nsec	-	60	120
Absolute Delay	usec	-	2.9	-
Ultimate Rejection	dB	48	52	-
Temperature Coefficient of Frequency	ppm/℃	-	-72	-

Room Temperature : +25℃		Minimum	Typical	Maximum
Insertion Loss	dB	-	23.5	25.0
Amplitude Ripple (fo ± 7.54 MHz)	dB	-	0.6	1.0
Group Delay Variation (fo ± 7.54 MHz)	nsec	-	60	120
Out of Band gain @BW Edge ± 1.0 MHz	dB	25	33	-

1. @BW Edge : 14.475MHz 2. Input POWER : +10dBm

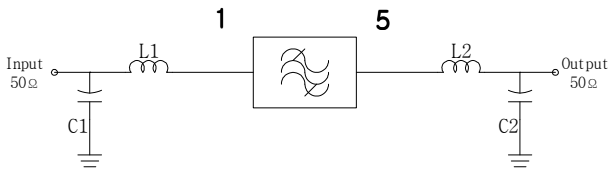
D3512 Package Dimension



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 = 100nH, L2 =120nH, C1 = 30pF, C2 = 33pF

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

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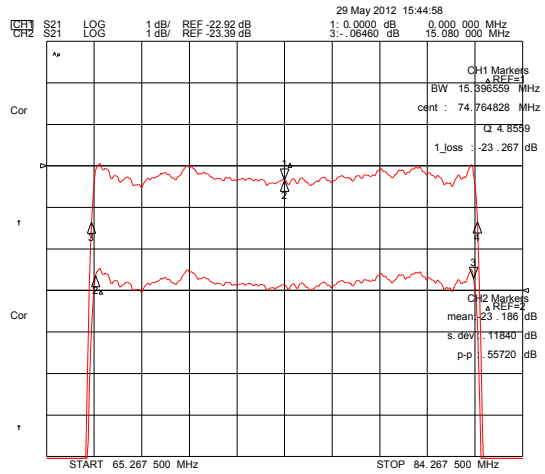
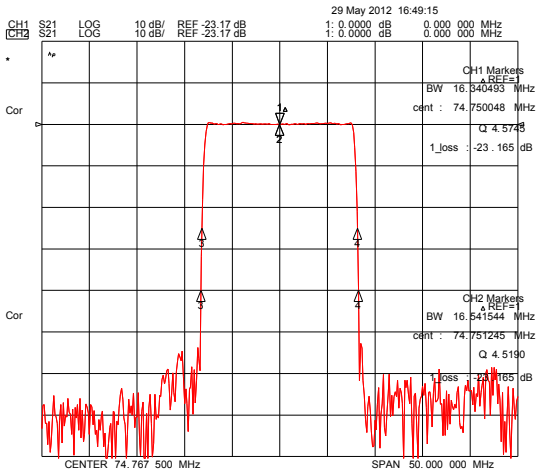
Rev 1.0

3. Typical Performance (at +25℃)

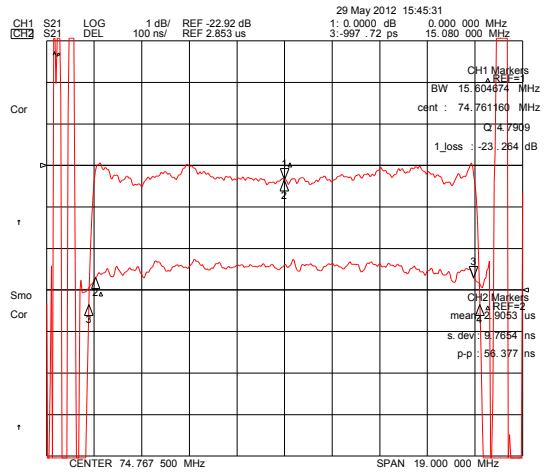
1dB Bandwidth & Ripple



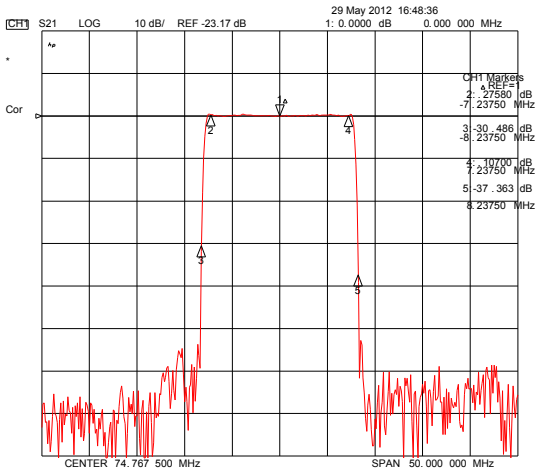
25dB Bandwidth & 40dB Bandwidth



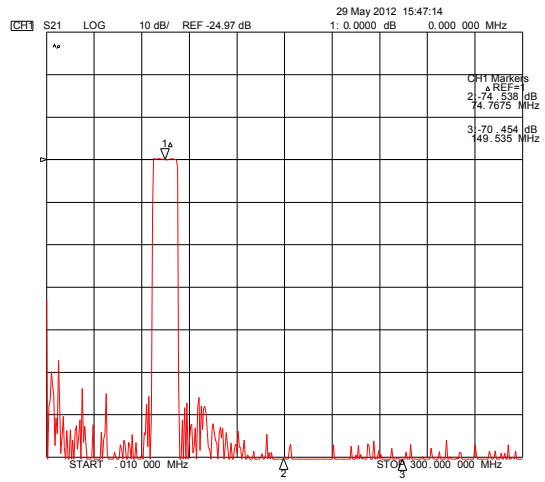
3dB Bandwidth & Group Delay



Out of Band gain



Wideband Properties



SWR(S11 & S22)