70.0 MHz SAW Filter
Part Number 201106B

1. Features

- Typical 1dB bandwidth of 2.72 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)
- RoHS/RoHS2 (2015/863/EU) Compliant

RoHS Compliant

Tested by SGS Testing Korea

2. Electrical Specifications

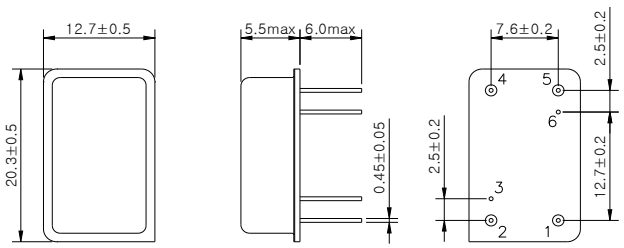
Source and Load Impedance = 50Ω

Room Temperature : +25℃		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	69.94	70.0	70.06
Insertion Loss	dB	-	23.8	25.0
1dB Bandwidth	MHz	-	2.72	-
3dB Bandwidth	MHz	3.0	3.08	-
40dB Bandwidth	MHz	-	4.4	4.5
Amplitude Ripple (fo ± 1.1 MHz)	dB	-	0.3	1.0
Group Delay Variation (fo ± 1.1 MHz)	nsec	-	70	200
Absolute Delay	usec	-	2.52	-
Ultimate Rejection	dB	40	45	-
Temperature Coefficient of Frequency	ppm/℃^{2}	-	-0.03	-

* Input POWER : +10dBm

Due to variances in a PCB layout and parasitics, actual matching values may have to be changed accordingly.

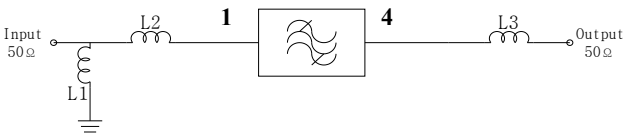
D2012 Package Dimension



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 = 82nH, L2 = L3 = 330nH

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

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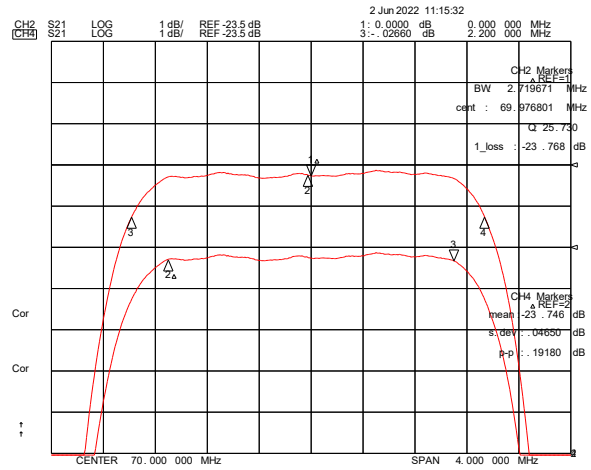
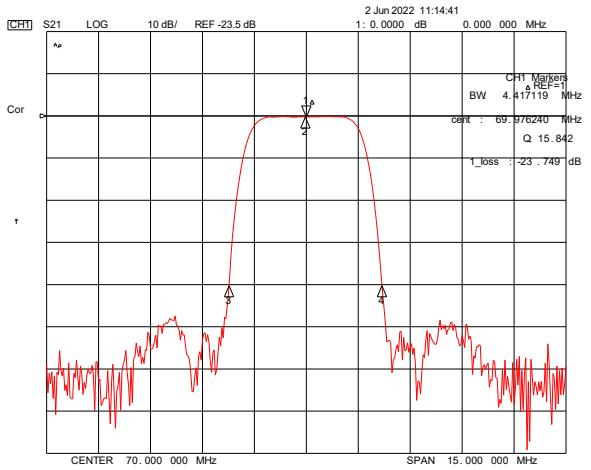
2022. 06. 08.
Rev 1.0

3. Typical Performance (at +25℃)

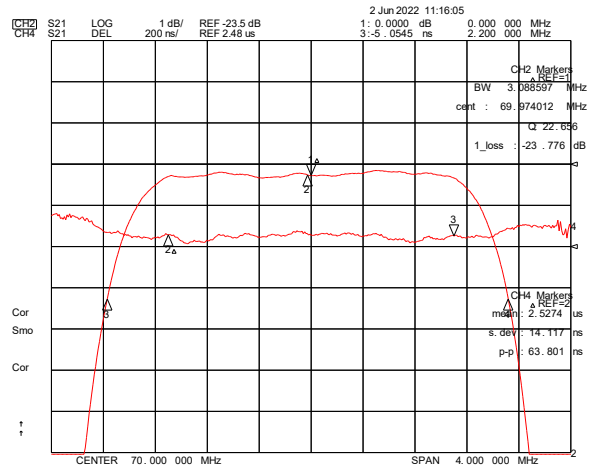
1dB Bandwidth & Ripple



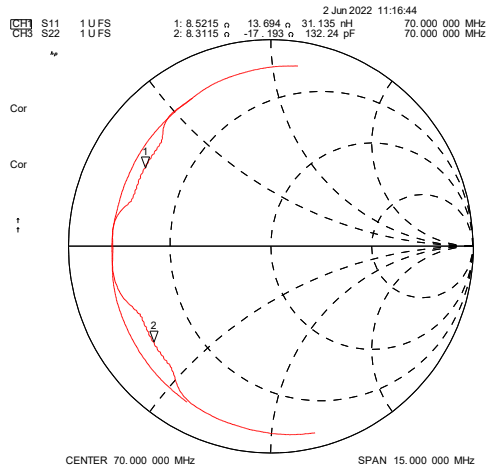
40dB Bandwidth



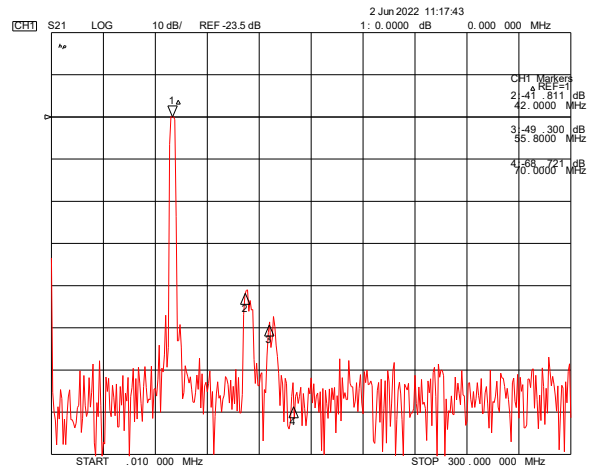
3dB Bandwidth & Group Delay



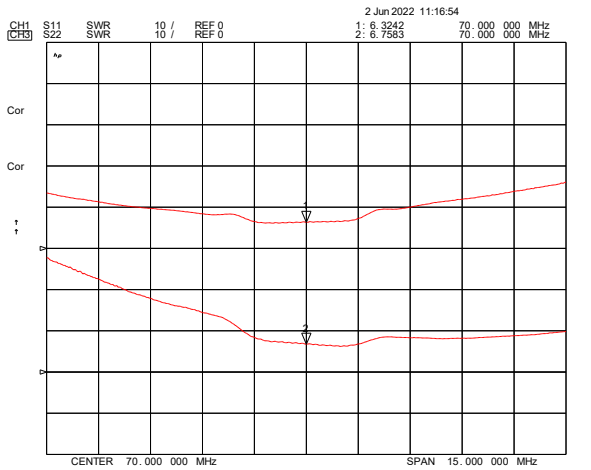
Smith Chart(S11 & S22)



Wide band Properties



SWR(S11 & S22)



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