

1. Features

- Typical 1dB bandwidth of 4.8 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

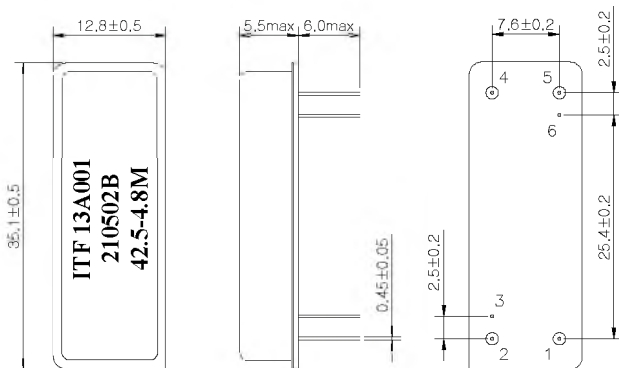
2. Electrical Specifications

Source and Load Impedance = 50Ω

Room Temperature : +25°C		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	42.5	-
Insertion Loss	dB	-	20.5	23.0
1dB Bandwidth	MHz	4.75	4.83	-
3dB Bandwidth	MHz	-	5.04	-
40dB Bandwidth	MHz	-	5.95	6.1
Amplitude Ripple (fo ± 2.25 MHz)	dB	-	0.6	1.0
Group Delay Variation (fo ± 2.25 MHz)	nsec	-	105	160
Absolute Delay	usec	-	3.26	-
Ultimate Rejection	dB	45	53	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

Input POWER : 10dBm

D3512 Package Dimension



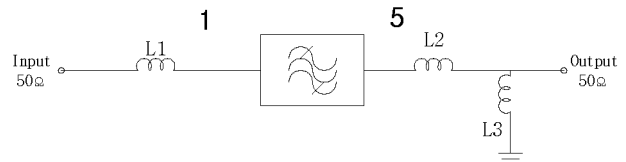
Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated

Cap : Cu & Cr Alloy, Ni Plated

Termination : Kovar, Au Plated

Matching Schematic



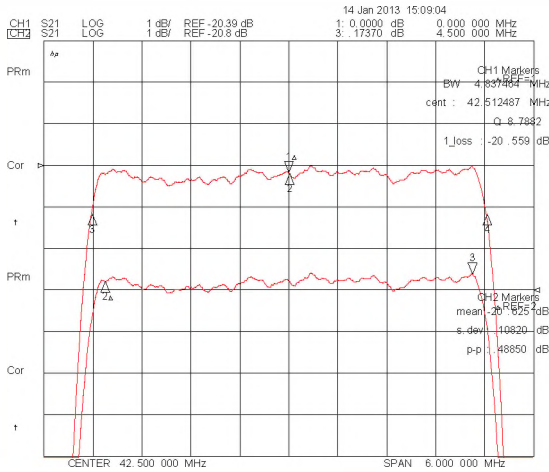
L1 = L2 = 15nH, L3 = 220nH

Pin Configuration

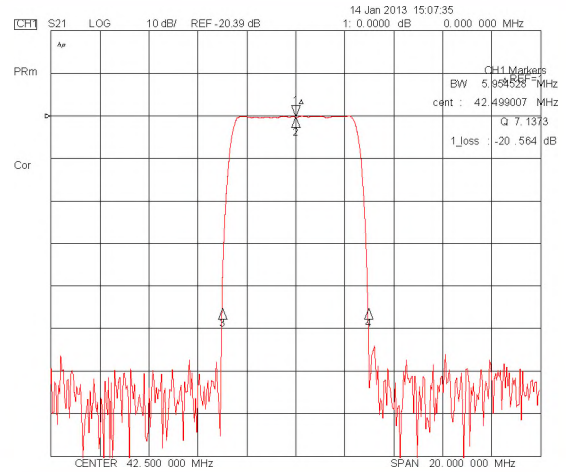
Input	1	Ground	2,4
Output	5	Others	Ground

3. Typical Performance (at +25°C)

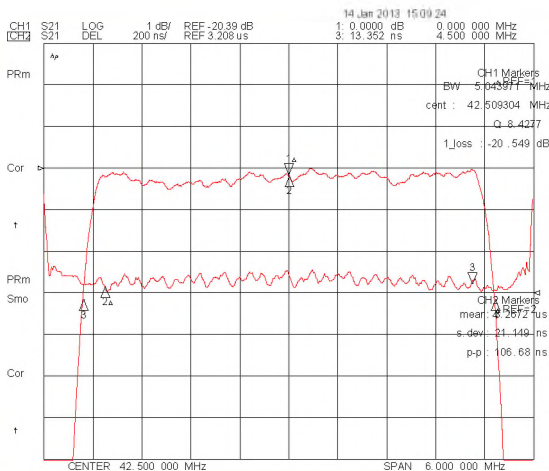
1dB Bandwidth & Ripple



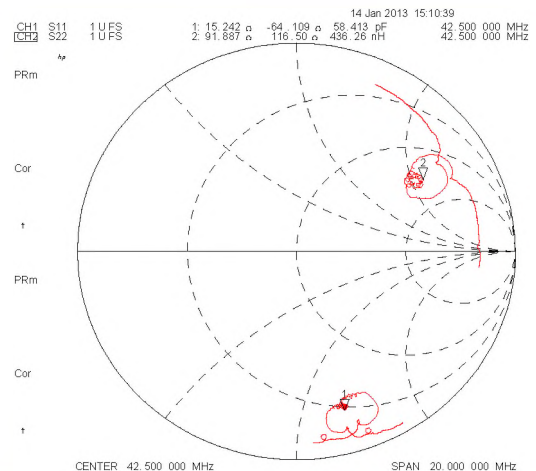
45dB Bandwidth



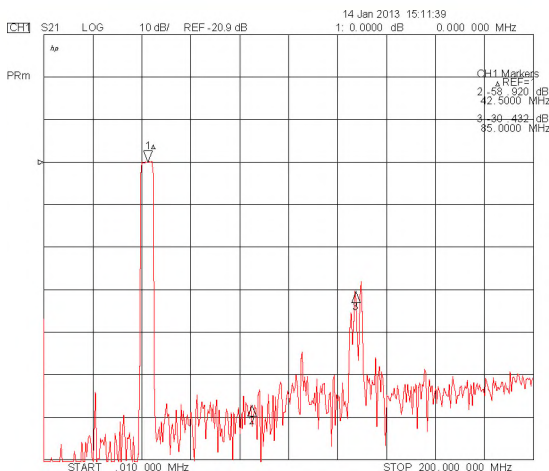
3dB Bandwidth & Group Delay



Smith Chart(S11 & S22)



Wideband Properties



SWR(S11 & S22)

