

1. Features

- Typical 1dB bandwidth of 17.7 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

Tested by SGS Testing Korea

2. Electrical Specifications

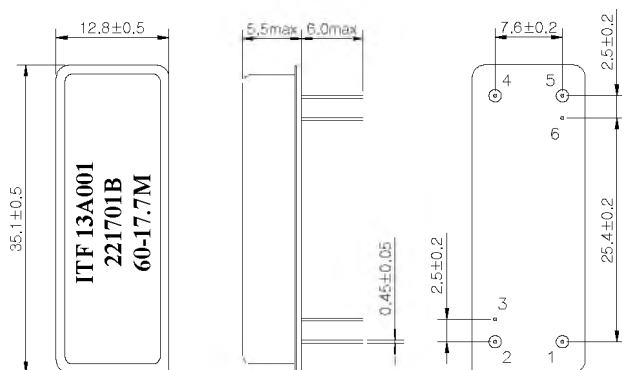
Source and Load Impedance = 50Ω

Operating Temperature : -10°C ~ +70°C		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	60.0	-
Insertion Loss	dB	-	24.5	26.0
1dB Bandwidth	MHz	17.6	17.79	-
3dB Bandwidth	MHz	-	17.99	-
40dB Bandwidth	MHz	-	18.75	-
45dB Bandwidth	MHz	-	18.8	19.0
Amplitude Ripple (fo ± 8.5 MHz)	dB	-	0.6	1.2
Group Delay Variation (fo ± 8.5 MHz)	nsec	-	45	100
Absolute Delay	usec	-	3.37	3.7
Ultimate Rejection	dB	47	53	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

Room Temperature : +25°C		Minimum	Typical	Maximum
Insertion Loss	dB	-	24.5	26.0
Amplitude Ripple (fo ± 8.69 MHz)	dB	-	0.6	1.2
Group Delay Variation (fo ± 8.69 MHz)	nsec	-	45	100

Input POWER : +10dBm

D3512 Package Dimension



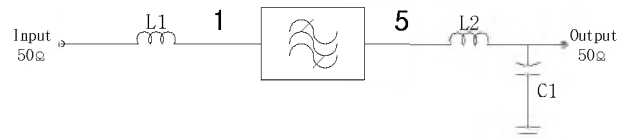
Dimensions shown are nominal in millimeters

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

Cap : Cu & Cr Alloy, Ni Plated

Termination : Kovar, Au Plated

Matching Schematic



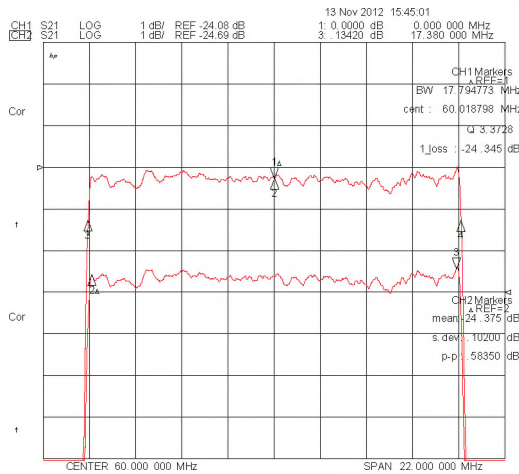
L1 = L2 = 180nH, C1 = 30pF

Pin Configuration

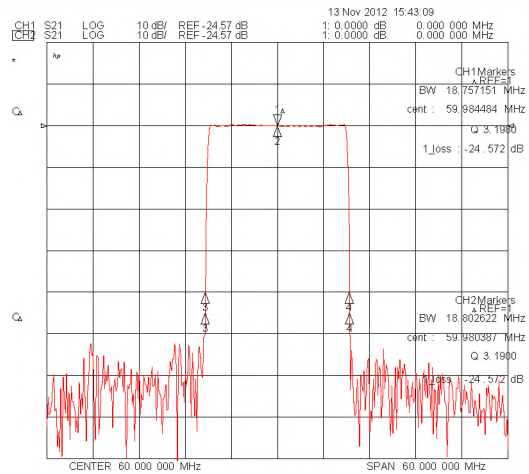
Pin Configuration			
Input	1	Ground	2,4
Output	5	Others	Ground

3. Typical Performance (at +25°C)

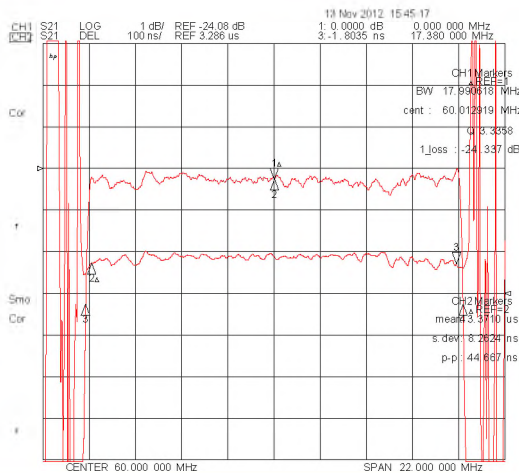
1dB Bandwidth & Ripple



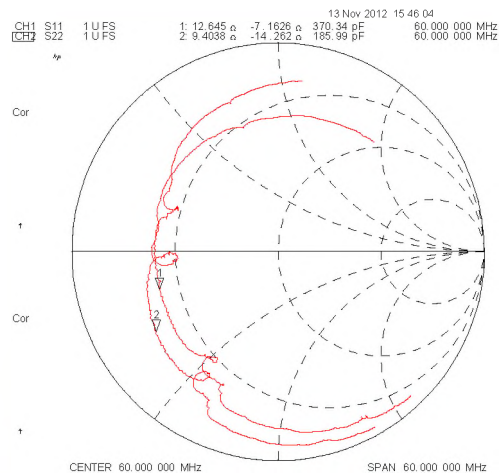
40dB Bandwidth & 45dB Bandwidth



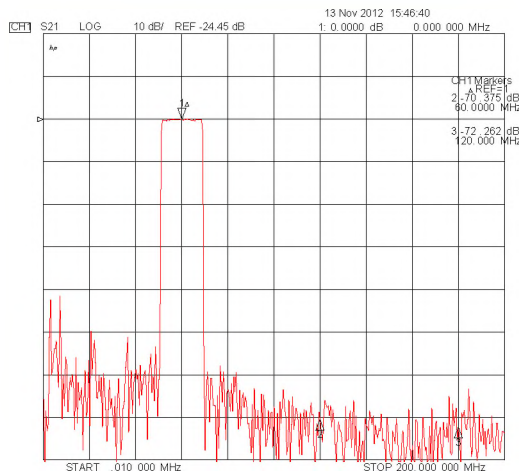
3dB Bandwidth & Group Delay



Smith Chart (S11&S22)



Wide band Properties



SWR(S11 & S22)

