

1. Features

- Typical 1dB bandwidth of 1.5 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

RoHS Compliant

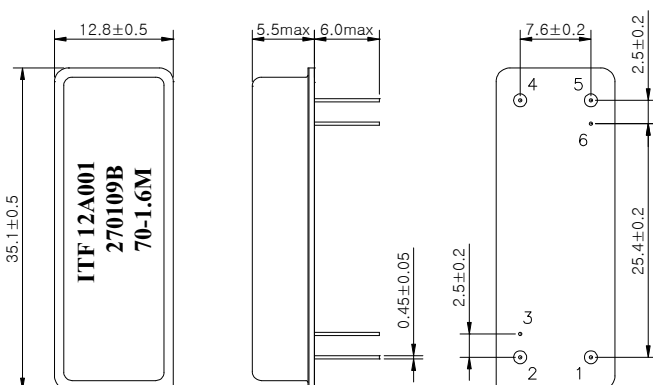
Tested by SGS Testing Korea

2. Electrical Specifications

Source and Load Impedance = 50Ω

Room Temperature : +25°C		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	70.0	-
Insertion Loss	dB	-	22.0	24.0
1dB Bandwidth	MHz	-	1.5	-
2dB Bandwidth	MHz	1.57	1.61	-
3dB Bandwidth	MHz	-	1.7	-
25dB Bandwidth	MHz	-	2.26	2.35
40dB Bandwidth	MHz	-	2.42	-
Amplitude Ripple (fo ± 0.6 MHz)	dB	-	0.3	0.9
Group Delay Variation (fo ± 0.6 MHz)	nsec	-	105	200
Absolute Delay	usec	-	3.6	-
Ultimate Rejection	dB	50	57	-
Temperature Coefficient of Frequency	ppm/°C ²	-	-0.03	-

D3512 Package Dimension



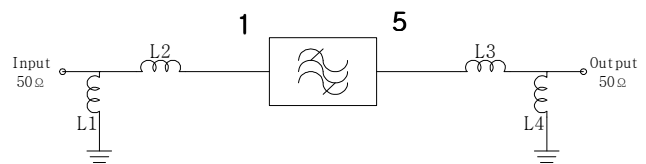
Dimensions shown are nominal in millimeters

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

Cap : Cu & Cr Alloy, Ni Plated

Termination : Kovar, Au Plated

Matching Network Configuration



$$L1 = L4 = 100 \text{ nH}$$

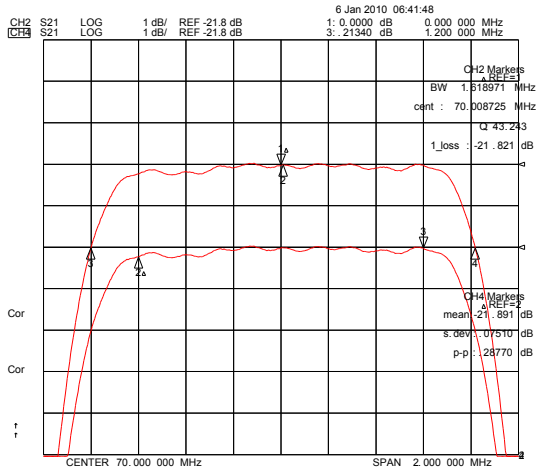
$$L2 = L3 = 150 \text{ nH}$$

Pin Configuration

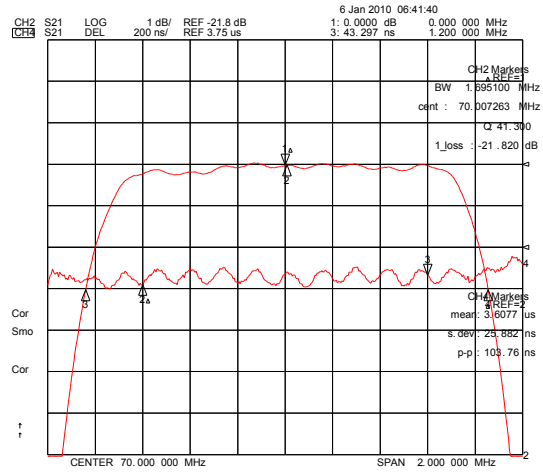
Input	1	Ground	2,4
Output	5	Others	Ground

3. Typical Performance (at +25°C)

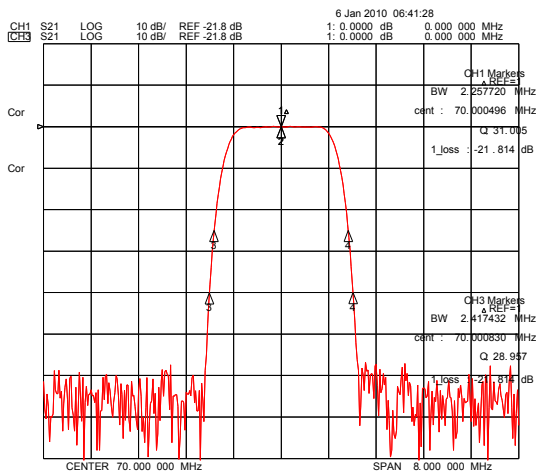
2dB Bandwidth & Ripple($f_o \pm 0.6$ MHz)



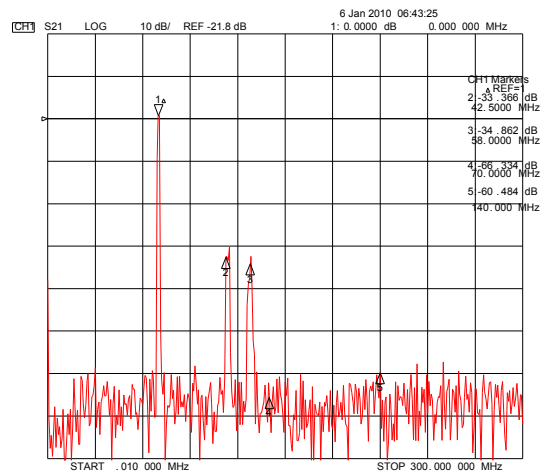
3dB Bandwidth & Group Delay($f_o \pm 0.6$ MHz)



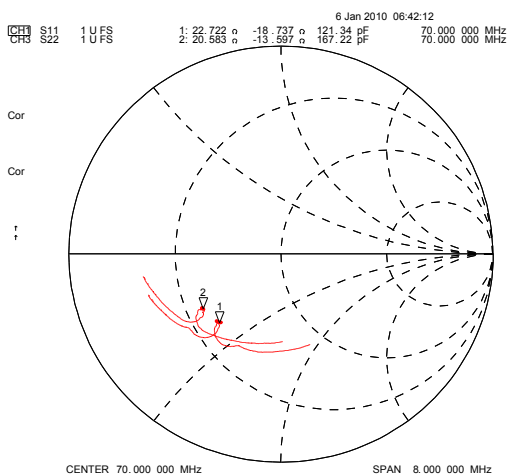
25dB & 40dB Bandwidth



Wideband Properties



Smith Chart (S11 & S22)



SWR(S11 & S22)

