

1. Features

- Typical 1dB bandwidth of 1.45 MHz
- Low-Loss Filter
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

Tested by SGS Testing Korea

2. Electrical Specifications

Source and Load Impedance = 50Ω

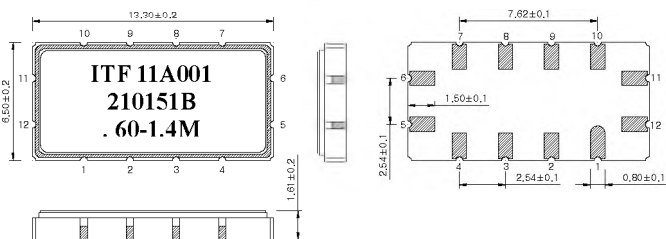
Operating Temperature : -35°C ~ +75°C

		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	60.0	-
Insertion Loss	dB	-	12.6	15.0
1dB Bandwidth	MHz	1.0	1.45	-
3dB Bandwidth	MHz	-	1.9	-
40dB Bandwidth	MHz	-	3.65	4.1
Amplitude Ripple (fo ± 0.42 MHz)	dB	-	0.5	1.0
Group Delay Variation (fo ± 0.42 MHz)	nsec	-	85	120
Absolute Delay	usec	-	1.59	-
Ultimate Rejection	dB	40	47	-
Temperature Coefficient of Frequency	ppm/°C	-	-18	-

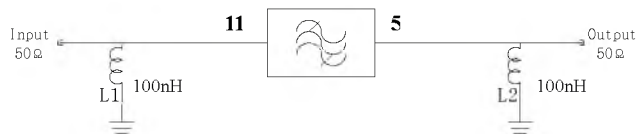
Room Temperature : +25°C

		Minimum	Typical	Maximum
Insertion Loss	dB	-	12.6	14.5
Amplitude Ripple (fo ± 0.5 MHz)	dB	-	0.5	1.0
Group Delay Variation (fo ± 0.5 MHz)	nsec	-	85	120

S1365 Package Dimension



Matching Schematic



Dimensions shown are nominal in millimeters

Body : Al₂O₃

Lid : Kovar, Ni Plated

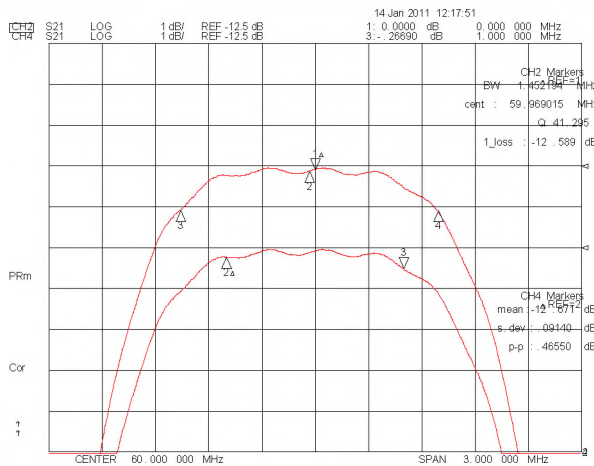
Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

Pin Configuration

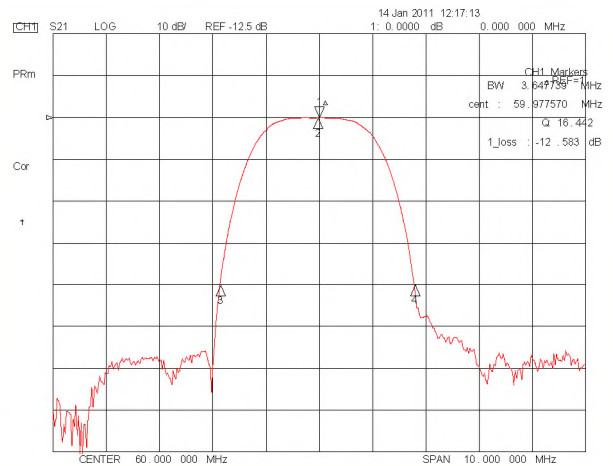
Input	11	Ground	6, 12
Output	5	Others	Ground

3. Typical Performance (at +25°C)

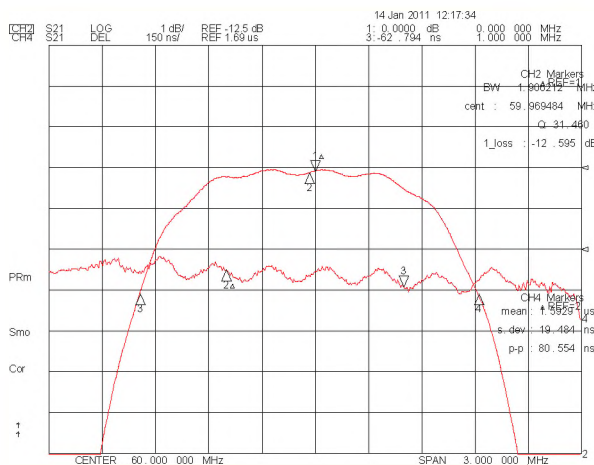
1dB Bandwidth & Ripple



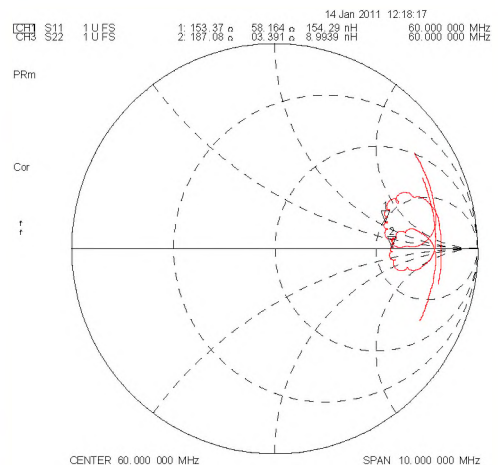
40dB Bandwidth



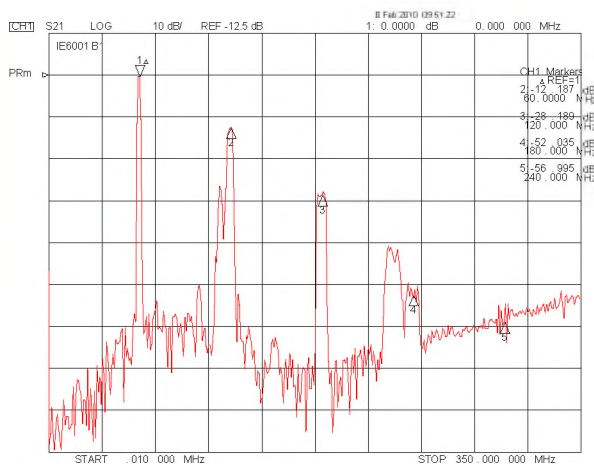
3dB Bandwidth & Group Delay



Smith Chart(S11 & S22)



Wide band Properties



SWR(S11 & S22)

