

## 1. Features

- Typical 1dB bandwidth of 46.8 MHz
- Low-Loss Filter
- Single Ended Operation
- Surface Mounted Package (SMD)

**RoHS Compliant**

Tested by SGS Testing Korea

## 2. Electrical Specifications

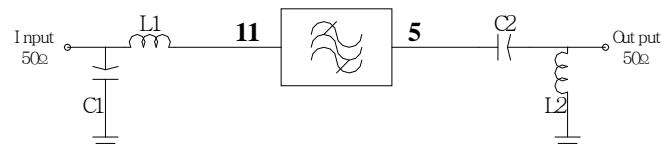
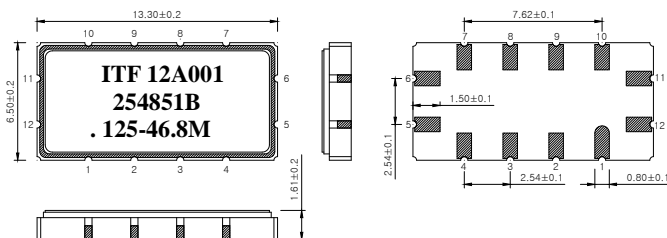
Source and Load Impedance = 50

Operating Temperature : -30°C ~ +80°C		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	125.0	-
Insertion Loss	dB	-	17.5	20.0
1dB Bandwidth	MHz	46.3	46.8	-
3dB Bandwidth	MHz	-	48.15	-
40dB Bandwidth	MHz	-	54.5	55.0
Amplitude Ripple (fo ± 21.5 MHz)	dB	-	0.35	1.0
Group Delay Variation (fo ± 21.5 MHz)	nsec	-	20	60
Absolute Delay	usec	-	0.8	-
Ultimate Rejection	dB	40	46	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

Room Temperature : +25°C		Minimum	Typical	Maximum
Insertion Loss	dB	-	17.5	19.5
Amplitude Ripple (fo ± 22.0 MHz)	dB	-	0.35	1.0
Group Delay Variation (fo ± 22.0 MHz)	nsec	-	20	60

### S1365 Package Dimension

### Matching Schematic



**C1 = 33pF, L1 = 47nH, C2 = 82pF, L2 = 68nH**

Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub>

Lid : Kovar, Ni Plated

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

### Pin Configuration

	11	Ground	6, 12
<b>Input</b>			
<b>Output</b>	5	Others	Ground

### 3. Typical Performance ( at +25°C )

