

1. Features

- Typical 1dB bandwidth of 27.7 MHz
- High attenuation
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

Tested by SGS Testing Korea

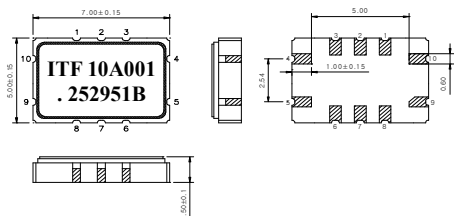
2. Electrical Specifications

Source and Load Impedance = 50Ω

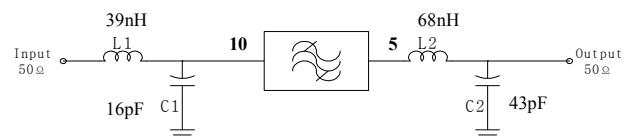
Operating Temperature : -30°C ~ +70°C		Minimum	Typical	Maximum
Center Frequency (fo)	MHz	-	120.0	-
Insertion Loss	dB	-	16.0	18.5
1dB Bandwidth	MHz	27.3	27.7	-
3dB Bandwidth	MHz	-	29.56	-
40dB Bandwidth	MHz	-	37.1	37.6
Amplitude Ripple (fo ± 12.5 MHz)	dB	-	0.5	1.0
Group Delay Variation (fo ± 12.5 MHz)	nsec	-	20	50
Absolute Delay	usec	-	0.48	0.5
Ultimate Rejection	dB	38	43	-
Temperature Coefficient of Frequency	ppm/°C	-	-86	-

Room Temperature : +25°C		Minimum	Typical	Maximum
Insertion Loss	dB	-	16.0	18.0
Amplitude Ripple (fo ± 13.05 MHz)	dB	-	0.5	1.0
Group Delay Variation (fo ± 13.05 MHz)	nsec	-	20	50
Relative Attenuation				
0.2 MHz ~ 10.0 MHz	dB	40	45	-
10.0 MHz ~ 85.0 MHz	dB	50	55	-
85.0 MHz ~ 100.0 MHz	dB	40	45	-
Fo - 15.0 MHz	dB	-	4	-
Fo + 15.0 MHz	dB	-	3.5	-
140.0 MHz ~ 152.0 MHz	dB	35	40	-
152.0 MHz ~ 600.0 MHz	dB	40	45	-

S7050 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	10	Ground	4, 9
Output	5	Others	Ground

3. Typical Performance (at +25°C)

