

1. Features

- Typical 3dB bandwidth of 14.5 MHz
- High attenuation
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

Tested by SGS Testing Korea

2. Electrical Specifications

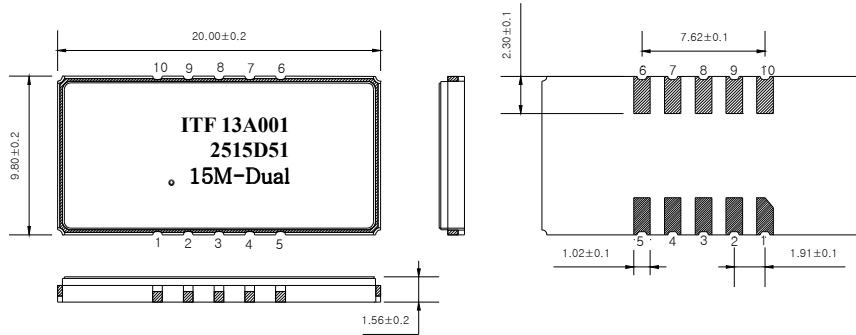
2-1. F₁ Electrical Specification

Room Temperature : +25°C		Minimum	Typical	Maximum
Center Frequency (F ₁)	MHz	-	109.5	-
Insertion Loss	dB	-	26.7	28.5
3dB Bandwidth	MHz	14.40	14.54	-
20dB Bandwidth			15.57	-
40dB Bandwidth			16.13	16.30
Amplitude Ripple (F ₁ +/- 6.75 MHz)	dB	-	0.8	1.3
Group Delay Variation (F ₁ +/- 6.75 MHz)	nsec	-	30	60
Absolute Delay (F ₁ + F ₂)	usec	-	2.06	-
Ultimate Rejection	dB	45	50	-
Out of Band Gain (Edge±1MHz)	dB	-	15.0	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

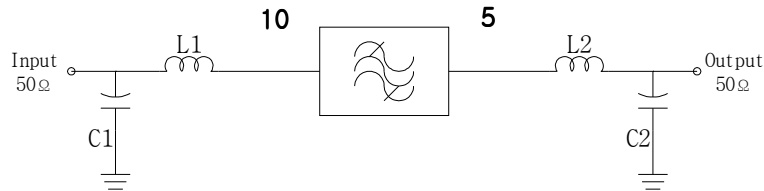
2-2. F₂ Electrical Specification

Room Temperature : +25°C		Minimum	Typical	Maximum
Center Frequency (F ₂)	MHz	-	154.5	-
Insertion Loss	dB	-	27.0	28.5
3dB Bandwidth	MHz	14.40	14.55	-
20dB Bandwidth			15.56	-
40dB Bandwidth			16.15	16.30
Amplitude Ripple (F ₂ +/- 6.75 MHz)	dB	-	1.0	1.5
Group Delay Variation (F ₂ +/- 6.75 MHz)	nsec	-	30	60
Absolute Delay (F ₁ +F ₂)	usec	-	2.06	-
Ultimate Rejection	dB	45	50	-
Out of Band Gain(Edge±1MHz)	dB	-	15	-
Temperature Coefficient of Frequency	ppm/°C	-	-72	-

S2098 Package Dimension



Matching Network Configuration



$L1 = 82\text{nH}, L2 = 68\text{nH}, C1 = C2 = 39\text{pF}$

Pin Configuration			
Input	10	Ground	1, 4
Output	5	Others	Ground

3. Typical Performance (at +25°C)

