

- 140.00 MHz IF SAW Filter / 0.47 MHz Bandwidth
- Revision 1: Sep. 2012

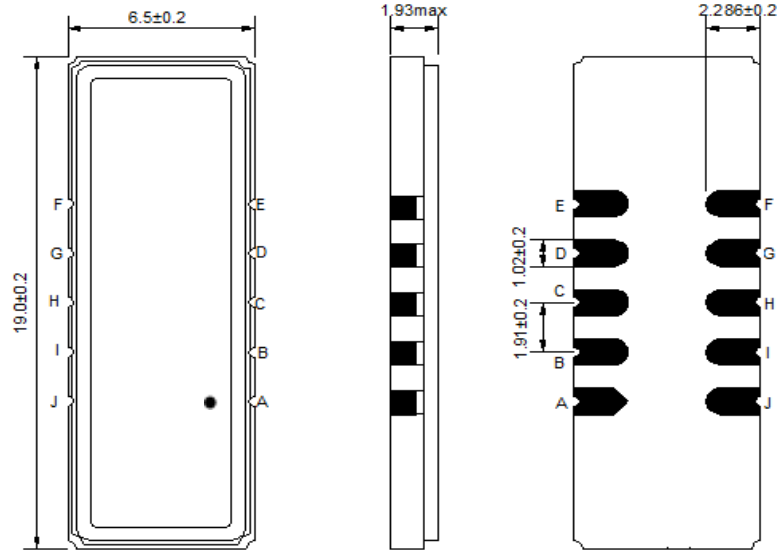
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-40	-	85
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	-
Maximum Input Power	dBm	-	-	10
Source Impedance (Single-ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (Single-ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	B1			
Length x Width	mm <sup>2</sup>	-	19.0 x 6.5	-
Height	mm	-	-	1.93

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	139.915	140.00	140.085
Minimum Insertion Loss (IL)	dB	-	7.0	8.0
Amplitude Ripple Variation at Fo ± 0.12MHz (AR)	dB	-	0.6	1.5
Group Delay Variation at Fo ± 0.15MHz	nsec	-	200	350
Bandwidth at -1dB	MHz	0.40	0.47	-
Bandwidth at -40dB	MHz	-	1.47	1.60
Relative attenuation (relative to min. IL)				
110.0 ~ Fo-1.0 MHz	dB	35	41	-
Fo +1.0 ~ 170.0 MHz	dB	35	39	-

**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).  
Those impedances could be modified with different impedance values and/or structures, if necessary.

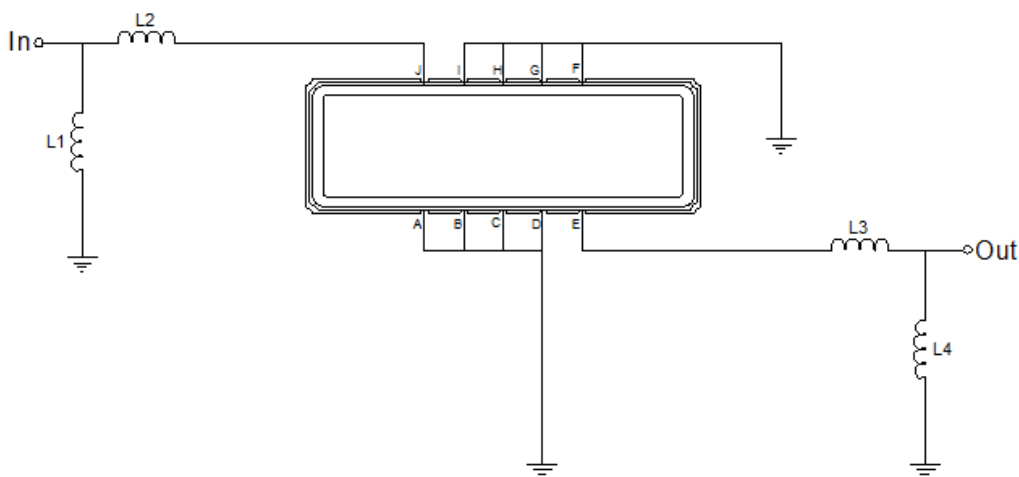
## Package Dimensions



- ① **TRANSKO:** Brand
- ② **TF-014001:** Model Name
- ③ **X :** Date Code (Year)
- ④ **Y :** Date Code (Month)
- ⑤ **Z :** Date Code (Date)
- : Index Dot

Pin Description	
A, B, C, D, F, G, H, I	Ground
J	Input
E	Output

## Testing Environment



Test Fixture & Values	
Input	L1 = 22 nH , L2 = 39 nH
Output	L3 = 33 nH , L4 = 22 nH
Source/Load Impedance	50 Ω

**Frequency Characteristics**

**Frequency Response**

