

- 70.00 MHz IF SAW Filter / 6.8 MHz Bandwidth
- Revision 2: 14 Apr. 2011

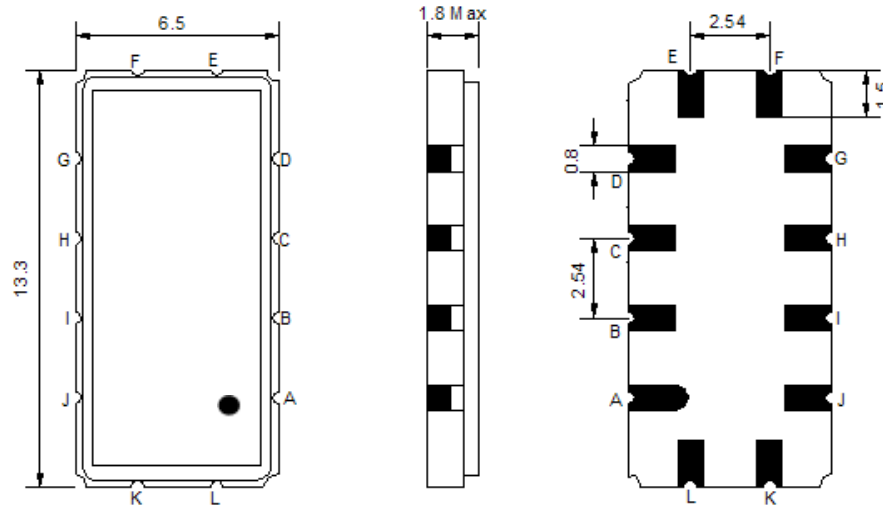
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	V			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	69.8	70.00	70.2
Insertion Loss at Fo	dB	-	8.6	9.5
Temperature Coefficient	ppm/°C	-	-84	-
Group Delay Variation	nsec	-	80	150
Absolute Delay at Fo	usec	-	0.85	-
Passband Ripple Variation	dB _{p-p}	-	0.65	1.0
Bandwidth at -1.0 dB	MHz	6.4	6.8	-
Bandwidth at -3.0 dB	MHz	7.4	7.8	-
Bandwidth at -40.0 dB	MHz	-	11.0	11.5
Ultimate Rejection	dB.	40	42	-

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.

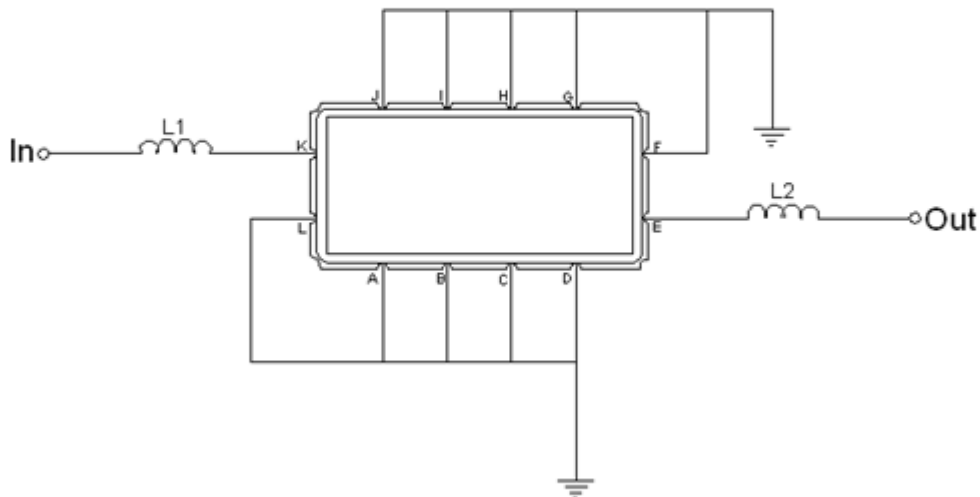
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL7007:** 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, J, L	Ground
K	Input
E	Output

Testing Environment



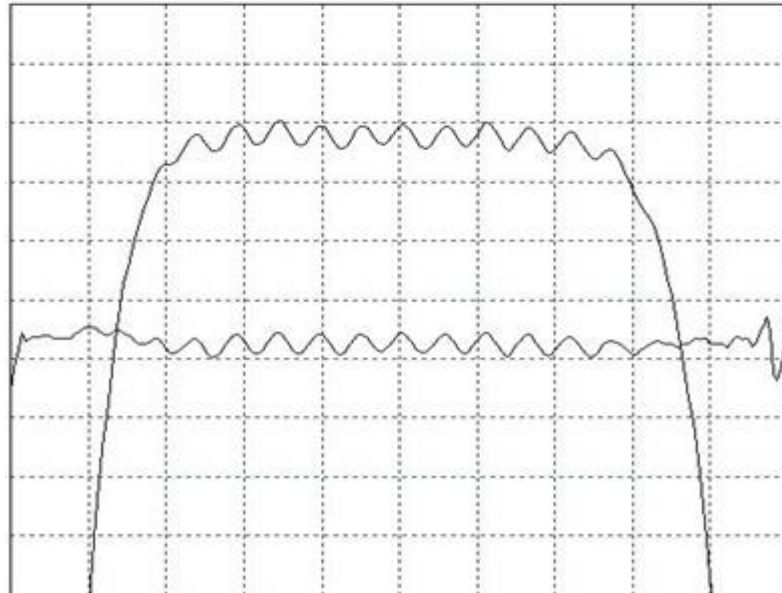
Test Fixture & Values	
Input	L1=180nH Q >40
Output	L2=150nH Q >40
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response



Horizontal : 4.0 MHz/Div
Vertical : 10 dB/Div



Horizontal : 1.1 MHz/Div
Vertical : 1 dB/Div
Vertical : 200 ns/Div