

- 140.00 MHz IF SAW Filter / 15.0 MHz Bandwidth
- Revision 1: 29. Oct. 2007

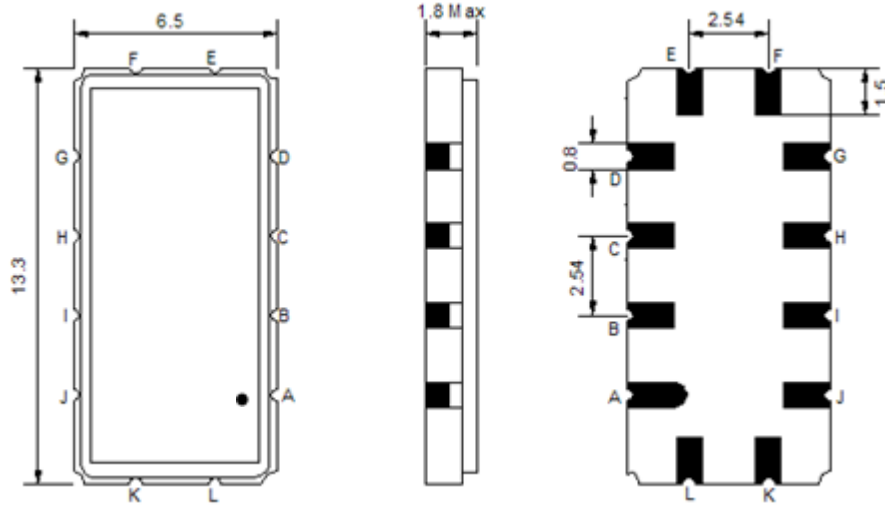
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation 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	-	140.0	-
Insertion Loss at Fo	dB	-	18.0	21.0
Amplitude Ripple Variation (Fo ± 6.875 MHz)	dB _{p-p}	-	0.6	1.0
Group Delay Variation (Fo ± 6.875 MHz)	nsec	-	50	100
Absolute Delay at Fo	µsec	-	0.88	-
Temperature Coefficient	ppm/°C	-	-23	-
Bandwidth at -1.0 dB	MHz	-	14.8	-
Bandwidth at -3.0 dB	MHz	15.0	15.5	-
Bandwidth at -40.0 dB	MHz	-	18.5	19.0
Relative Attenuation				
Lower Sidelobe	dB	42	48	-
Upper Sidelobe	dB	40	45	-
Fc-8.5MHz	dB	-	15	
Fc+8.5MHz	dB	-	9	

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.

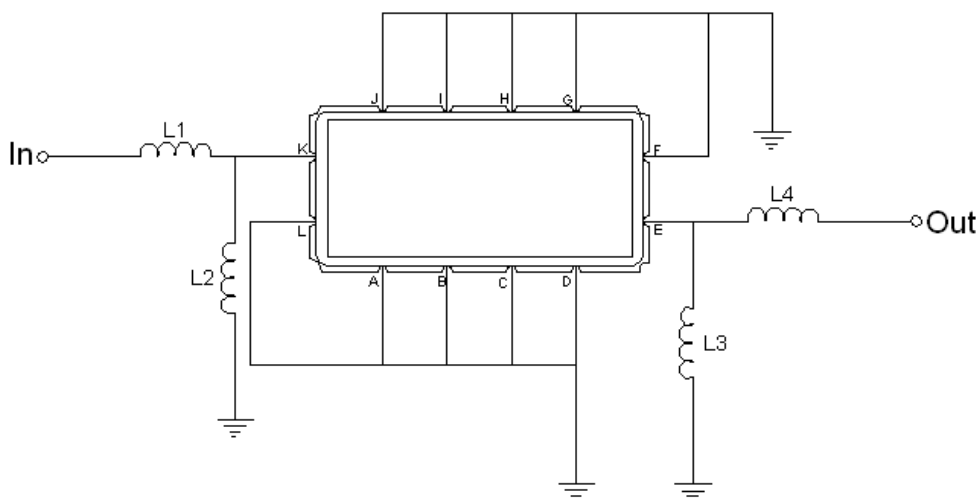
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TA140141A:** 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

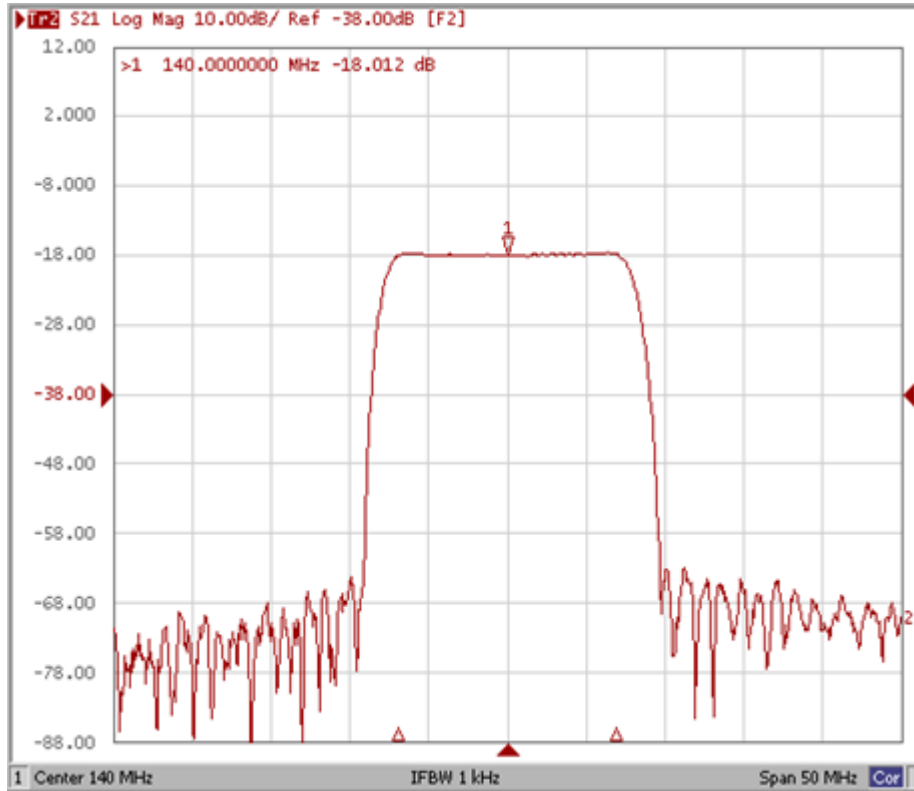
Testing Environment



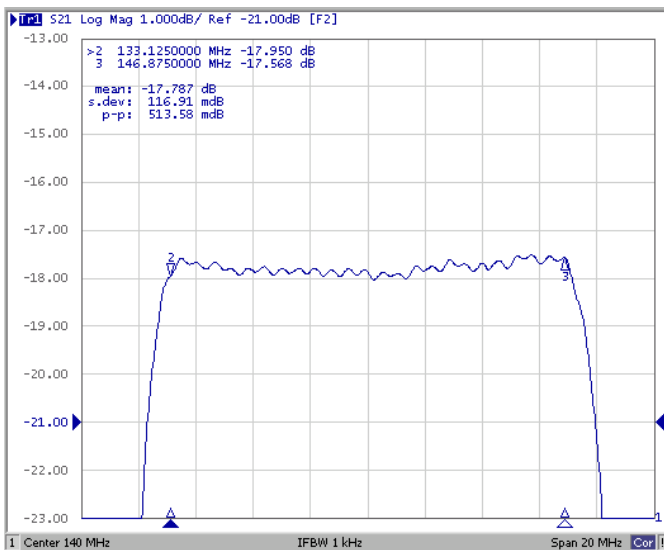
Test Fixture & Values	
Input	L1=68 nH , L2=47 nH
Output	L3=82 nH , L4=47 nH
Source/Load Impedance	50 Ω

Frequency Characteristics

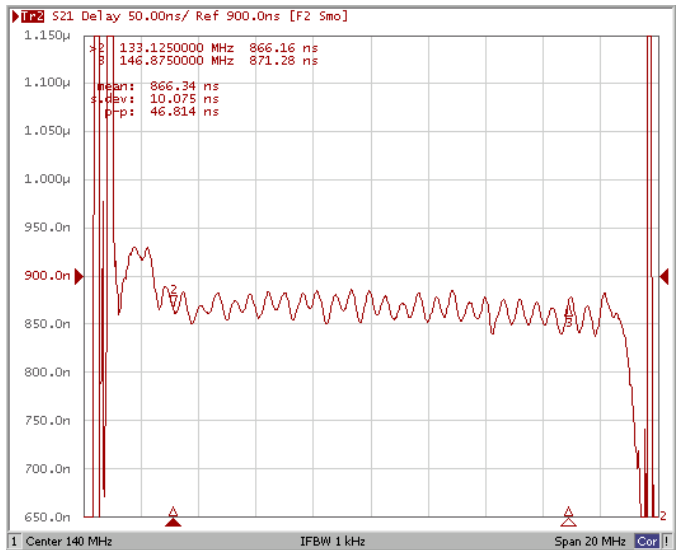
Frequency Response



Ripple Variation $F_0 \pm 6.875\text{MHz}$



Group Delay Variation $F_0 \pm 6.875\text{MHz}$



Frequency Response

Relative Attenuation (Fo±8.5MHz)

