

- 38.912 MHz IF SAW Filter for DAB Application
- Revision 0: 07. April. 2011

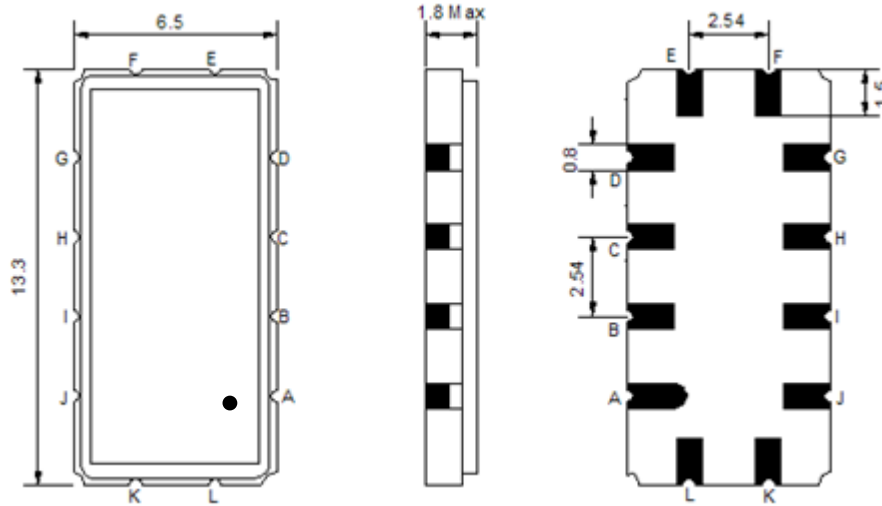
## Electrical Characteristics

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 or Balanced) <sup>(1)</sup>	Ω	-	50/2000	-
Load Impedance (single ended or Balanced) <sup>(1)</sup>	Ω	-	50/2000	-
Package type & size	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	38.912	-
Insertion Loss at Fo	dB	-	17.0	19.0
Group Delay Variation	nsec	-	80	200
Absolute Delay at Fo	µsec	-	1.36	-
Temperature Coefficient	ppm/°C	-	-20	-
Operating Temperature	°C	-30	-	+80
Bandwidth at -3.0 dB	MHz	-	1.5	-
Bandwidth at -30.0 dB	MHz	-	2.5	-
Relative Attenuation:				
30.00 ~ 36.26 MHz	dB	38	43	-
36.26 ~ 37.30 MHz	dB	38	42	-
40.60 ~ 41.40 MHz	dB	38	42	-
41.40 ~ 50.00 MHz	dB	38	43	-

**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.

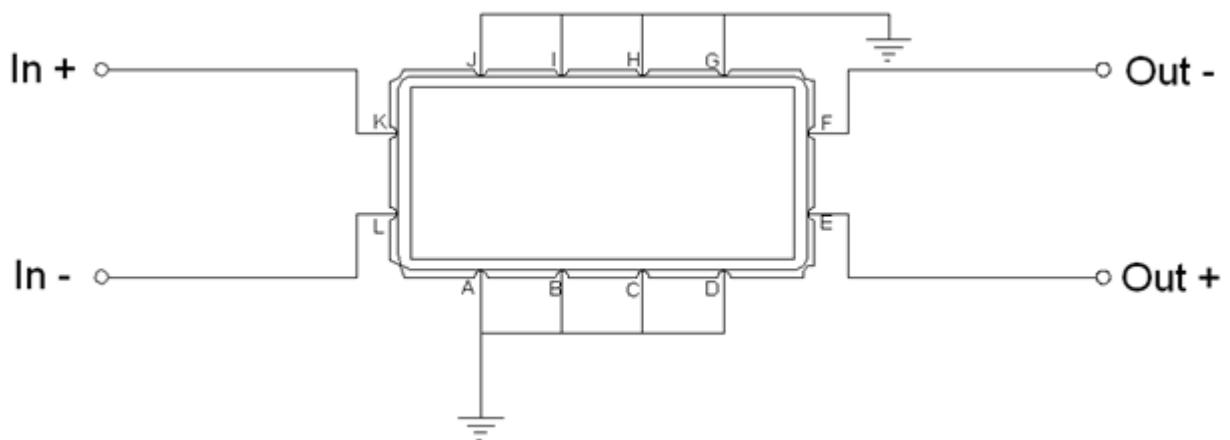
## Package Dimensions



- ② TRANSKO: Brand
- ② TA38FV: 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, G, H, I, J	Ground
K, L	Input
E, F	Output

## Testing Environment

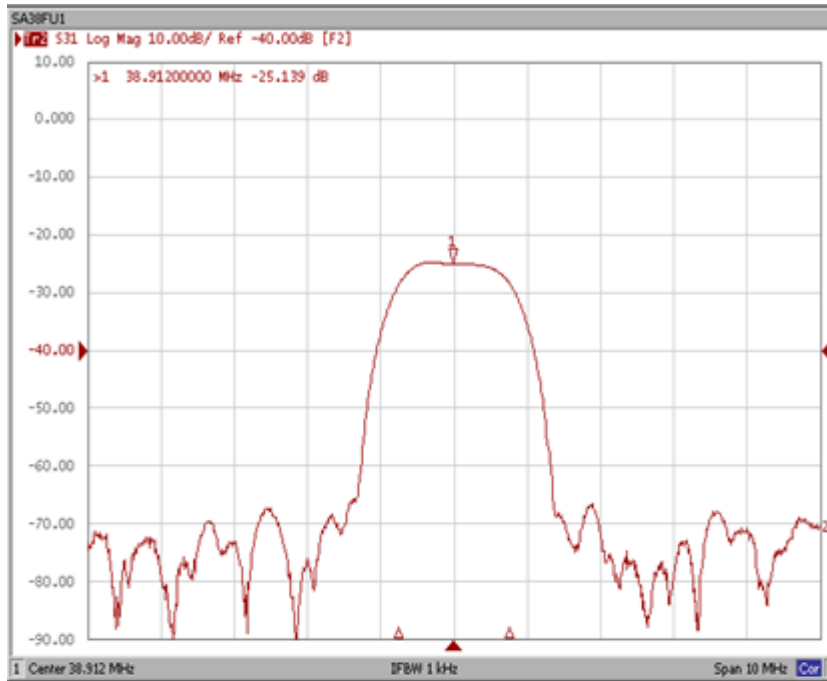


Source Impedance = 50 Ω or 2KΩ  
 Load Impedance = 50 Ω or 2KΩ

**Frequency Characteristics**

**Frequency Response**

**S21 Frequency Response (In case of 50Ω single ended)**



**Group Delay Variation**

