



Total Solution Provider in Saw Device

SA38FU7

38.912MHz IF SAW Filter for DAB Application
Revision 1: 29. Oct. 2007



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

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□ Electrical Characteristics

Maximum Ratings

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) ⁽¹⁾	Ω	-	50/2000	-
Load Impedance (single ended or Balanced) ⁽¹⁾	Ω	-	50/2000	-
Package type & size	U7			
Length x Width	mm ²	-	11.5 * 4.8	-
Height	mm	-	-	1.5

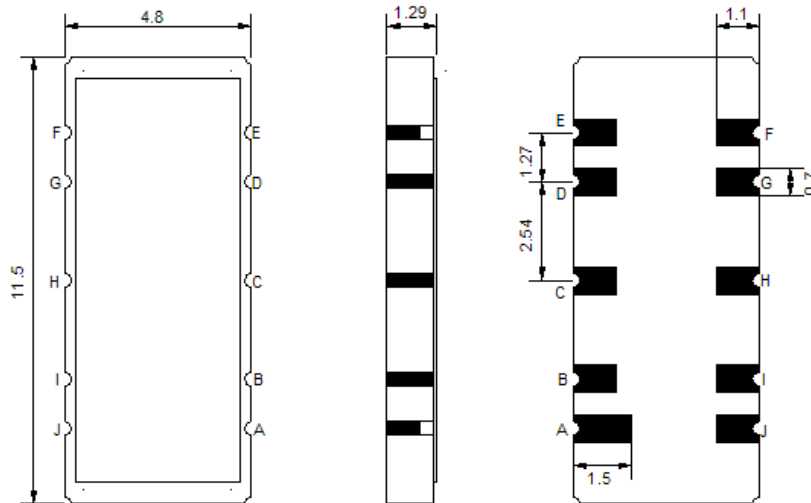
Electrical Specification

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).

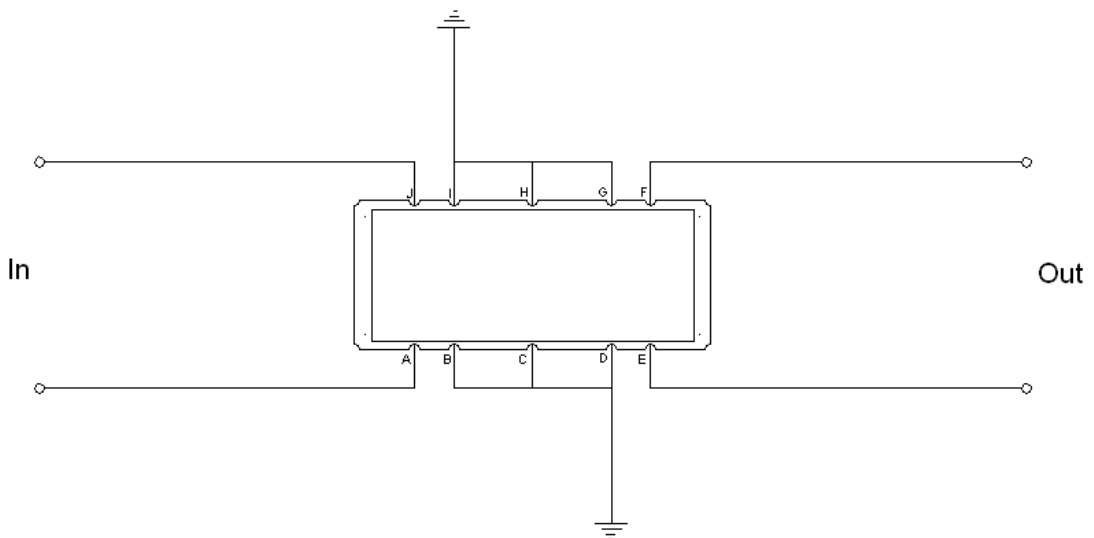
Those impedances could be modified with different impedance values and/or structures, if necessary.

□ Package Dimensions



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

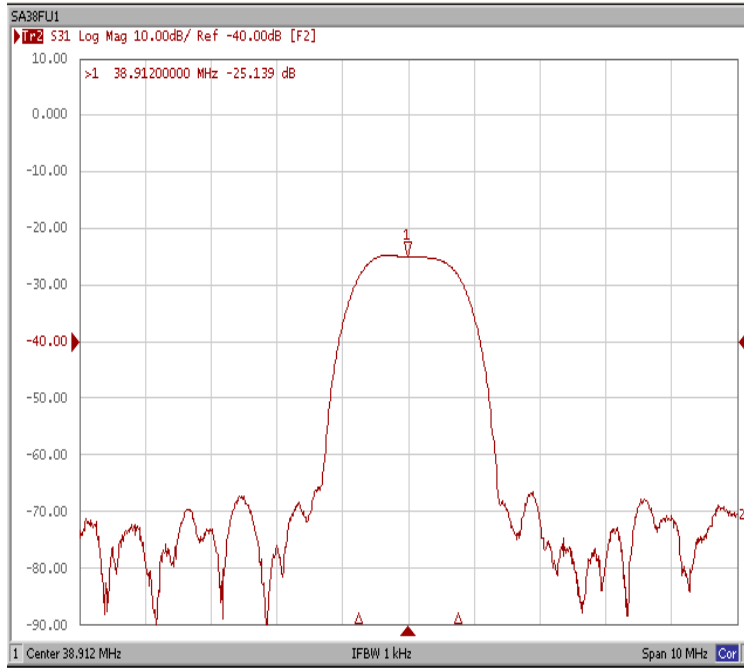
□ Testing Environment



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

□ Frequency Characteristics

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



Group Delay Variation

