



Total Solution Provider in Saw Device

SL7040AD

70.0 MHz IF SAW Filter
39.7 MHz Bandwidth
Revision 1: 29. Oct. 2007



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

SAWNICS Inc.

460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / www.sawnics.com

□ Electrical Characteristics

Maximum Ratings

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	D			
Length x Width	mm ²	-	20.0 x 12.6	-
Height	mm	-	-	5.05

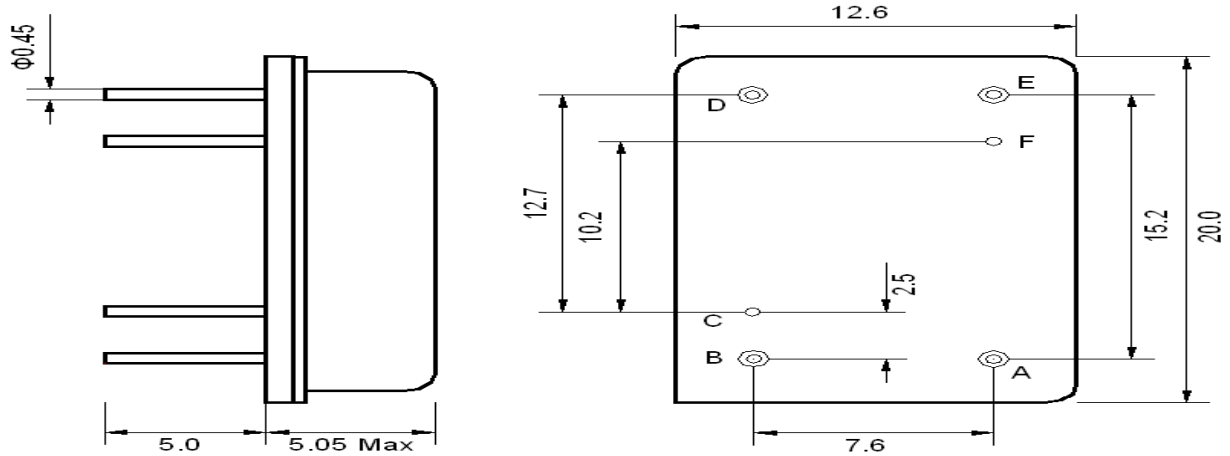
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	69.8	70.0	70.2
Insertion Loss at Fo	dB	-	20.7	22.5
Group Delay Variation at Fo±17.5MHz	nsec	-	18	30
Absolute Delay at Fo	µsec	-	0.89	-
Temperature Coefficient	ppm/°C	-	-72	-
Amplitude Ripple Variation at Fo±17.5MHz	dB _{p-p}	-	0.5	1.0
Bandwidth at -1.0 dB	MHz	39.0	39.7	-
Bandwidth at -3.0 dB	MHz	40.0	40.8	-
Bandwidth at -40.0 dB	MHz	-	46.8	48.5
Relative Attenuation:				
Lower sidelobe	dB	48	52	
Upper sidelobe	dB	25	32	

Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

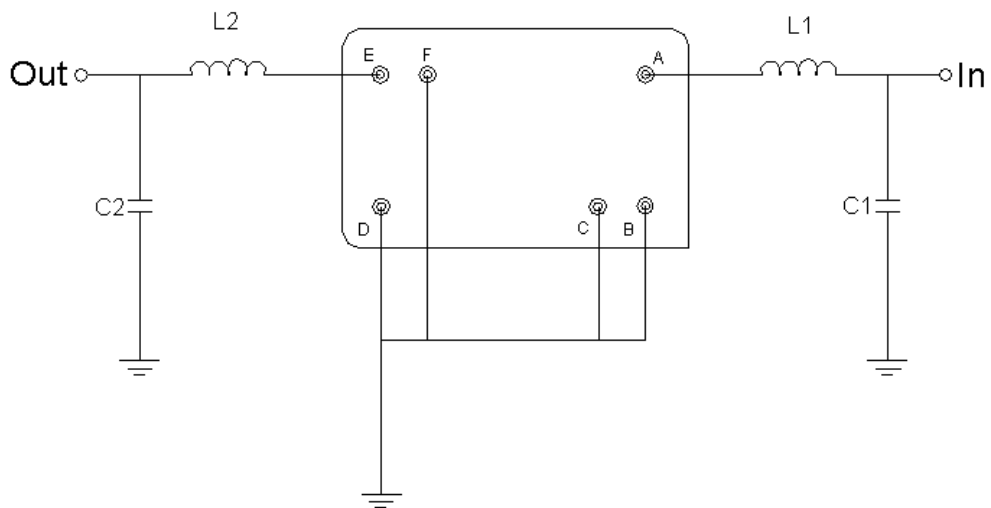
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



Pin Description	
B, C, D, F	Ground
A	Input
E	Output

Testing Environment



Test Fixture & Values	
Input	L1 = 150 nH, C1 = 8pF
Output	L2 = 120 nH, C2 = 12pF
Source/Load Impedance	50 Ω

□ Frequency Characteristics

Frequency Response

