



Total Solution Provider in Saw Device

SA82B1D

82.5MHz IF SAW Filter
17.9MHz Bandwidth
Revision 1: 29. Oct. 2007



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- Electrical Characteristics
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 - 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) ⁽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

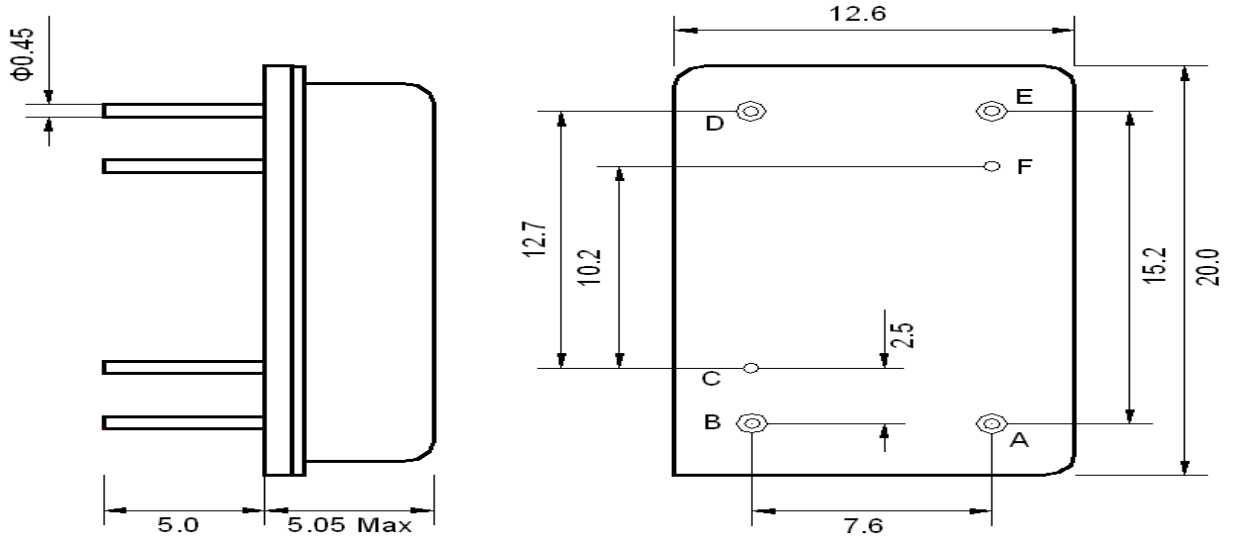
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	82.5	-
Insertion Loss at Fo	dB	-	24.2	26.0
Group Delay Variation	nsec	-	30	60
Absolute Delay at Fo	µsec	-	2.2	-
Temperature Coefficient	ppm/°C	-	-72	-
Amplitude Ripple Variation	dB _{p-p}	-	0.5	1.0
Bandwidth at -1.0 dB	MHz	17.9	18.0	-
Bandwidth at -3.0 dB	MHz	18.3	18.4	-
Bandwidth at -35.0 dB	MHz	-	19.8	19.9
Bandwidth at -40.0 dB	MHz	-	19.9	20.0
Ultimate Rejection	dB	50	55	-

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

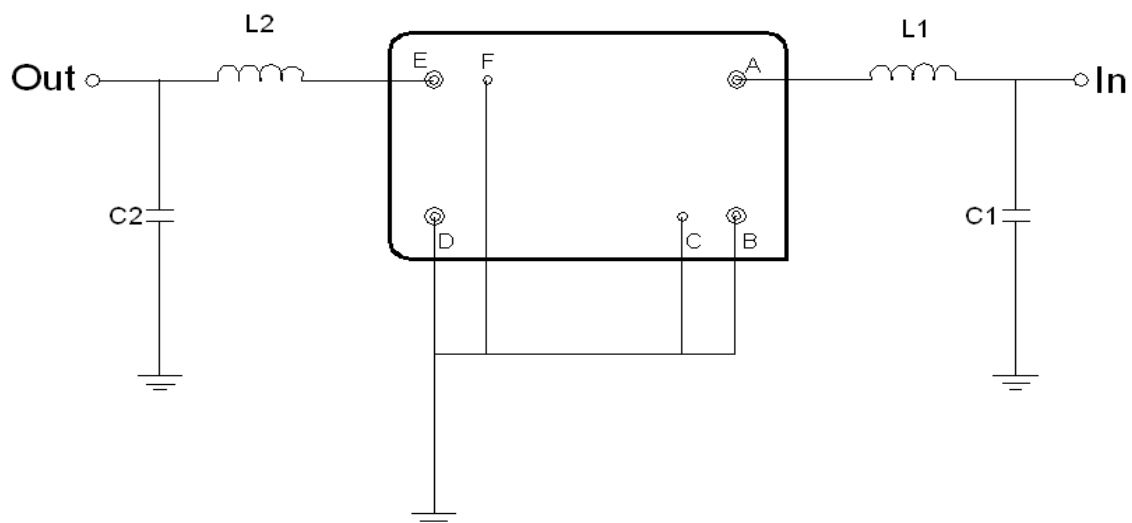
Those impedances could be modified with different impedance values and/or structures, if necessary.

□ Package Dimensions



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

□ Testing Environment



Test Fixture & Values	
Input	L1=22nH Q>40
Output	L2=33nH Q>40
Source/Load Impedance	50 Ω

□ Frequency Characteristics

Frequency Response

