



Total Solution Provider in Saw Device

SA140CD

140.0 MHz IF SAW Filter
25.0 MHz Bandwidth
Revision 1: 29. Oct. 2007



- 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

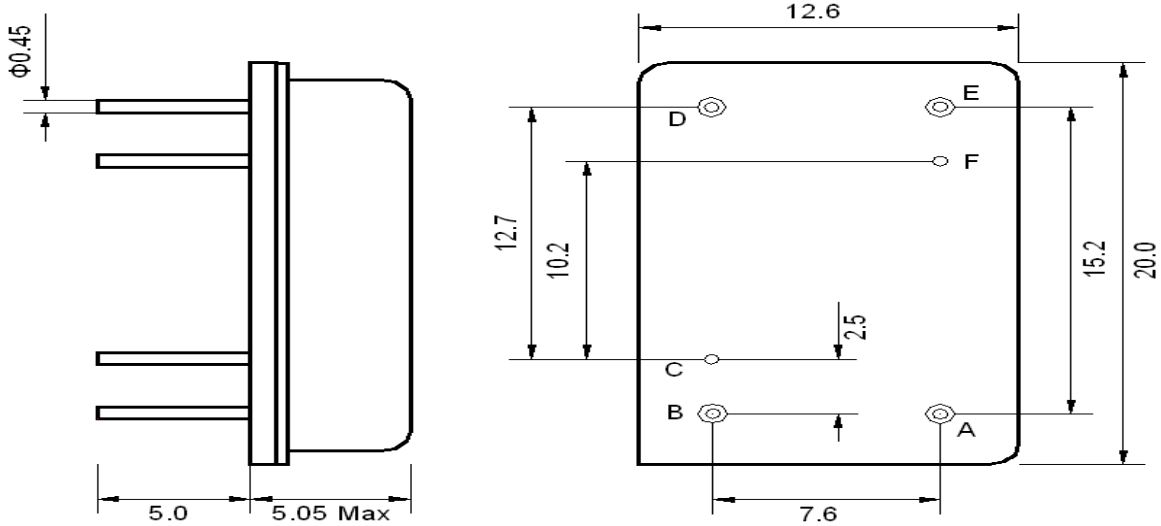
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	139.90	140.0	140.10
Insertion Loss at Fo	dB	-	21.5	24.0
Group Delay Variation	nsec	-	30	100
Absolute Delay at Fo	usec	-	1.20	-
Passband Ripple Variation	dB	-	0.70	1.0
Bandwidth at -1.0dB	MHz	24.3	24.8	-
Bandwidth at -3dB	MHz	25.0	25.5	-
Bandwidth at -40dB	MHz	-	28.6	30.0
Ultimate Rejection	dB	50	55	-
Substrate Material		-	LN	-
Ambient Temperature	°C	-	25	-

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

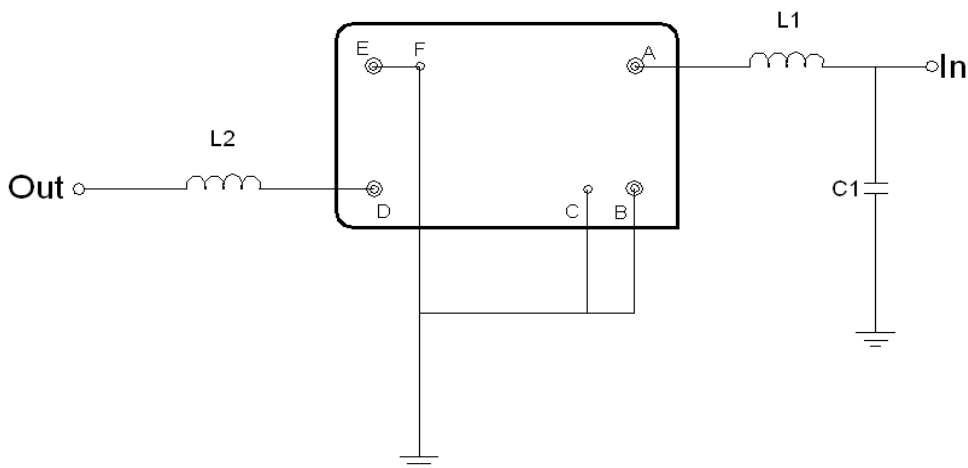
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

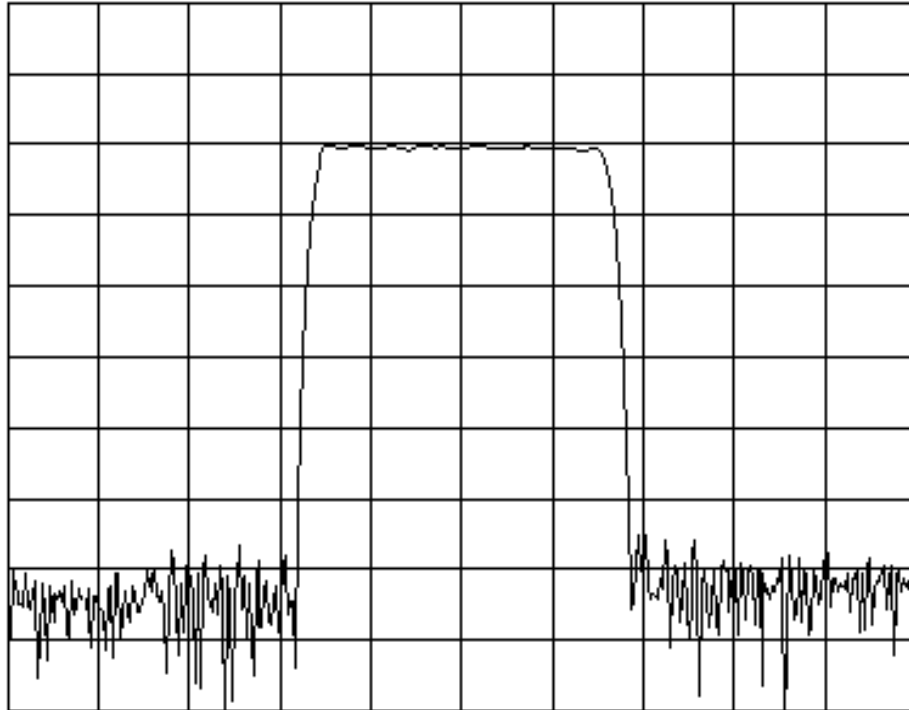
Testing Environment



Test Fixture & Values	
Input	L1 = 56nH , C1=18pF
Output	L2 = 56nH
Source/Load Impedance	50 Ω

□ Frequency Characteristics

Frequency Response



Horizontal : 8.0MHz/Div.
Vertical : 10dB/Div.