SA115CD1

115MHz IF SAW Filter
26.1MHz Bandwidth
Revision 1: 29. Oct. 2007

RoHS compliance
Pb free

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❒ Electrical Characteristics

Maximum Ratings

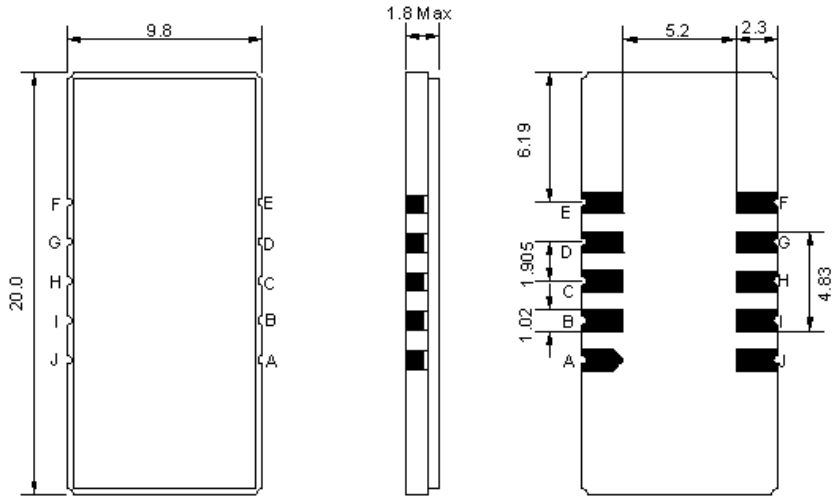
Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	D1			
Length x Width	mm²	-	20.0 x 9.8	-
Height	mm	-	-	5.2

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	114.9	115.0	115.1
Insertion Loss at Fo	dB	-	22.0	24.0
Amplitude Ripple within fo ±12.49 MHz	dB_{p-p}	-	0.65	1.0
Group Delay Variation within fo ±12.49 MHz	nsec	-	30	100
Absolute Delay at Fo	µsec	-	1.64	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at –1.0 dB	MHz	-	26.0	-
Bandwidth at –3.0 dB	MHz	26.1	26.5	-
Bandwidth at –40.0 dB	MHz	-	28.6	29.0
Lower Sidelobe	dB	50	55	-
Upper Sidelobe	dB	50	55	-

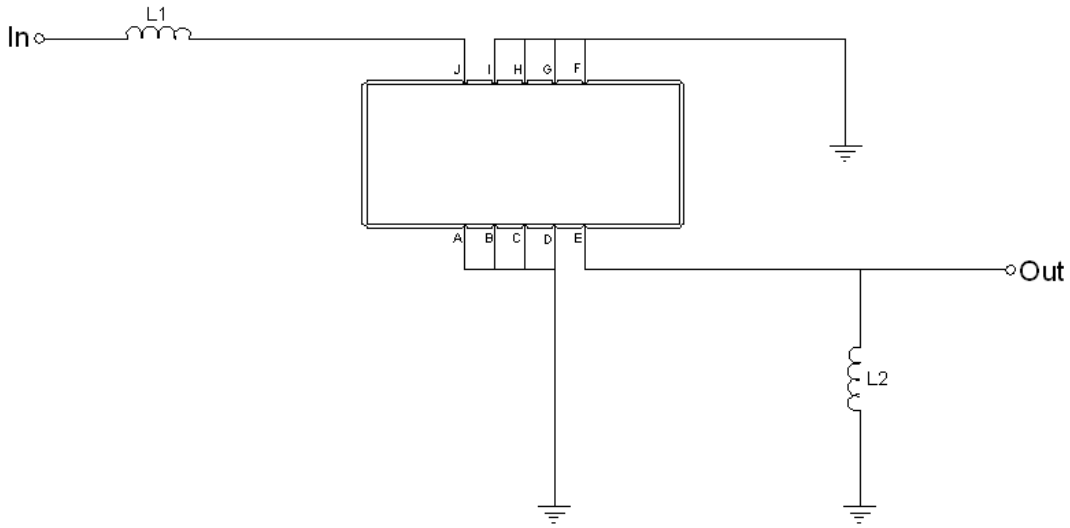
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

❒ Package Dimensions



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

❒ Testing Environment



Test Fixture & Values	
Input	L1= 82 nH
Output	L2= 56 nH
Source/Load Impedance	50 Ω

❒ Frequency Characteristics

Frequency Response