



PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
824-IF70.0M-WA	70 MHz IF SAW Filter 0.33MHz Bandwidth

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
- o Frequency Response

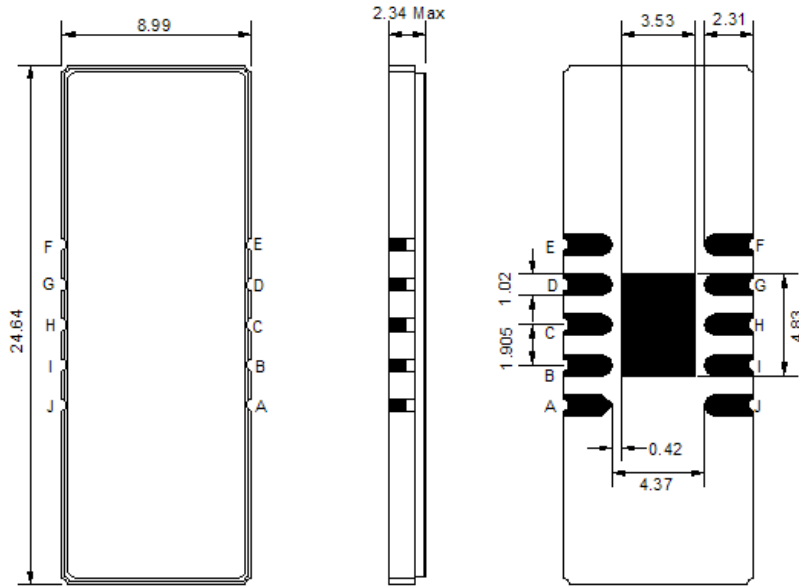
Notes

- o Electrostatic Sensitive Device (ESD) 
- o Avoid excessive ultrasonic exposure
- o Solderability compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature
- o This product complies with EU directive 2002/95/EC (RoHS compliance)



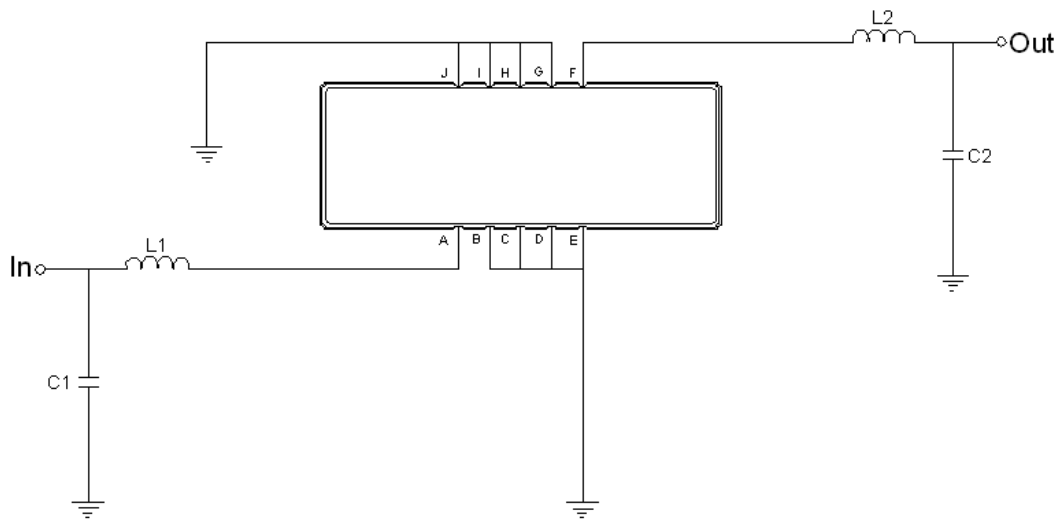


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1=200nH Q > 40, C1=100pF
Output	L2=180nH Q > 40, C2=51pF
Source/Load Impedance	50 Ω



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	-

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

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

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	70.0	-
Insertion Loss at Fo	dB	-	8.5	12.0
Amplitude Ripple Variation at Fo ±50.0 KHz	dB _{p-p}	-	0.4	1.0
Absolute Delay at Fo	μsec	-	3.22	-
IN/OUT Return Loss at Fo	dB	-	-	-
Temperature Coefficient	ppm/°C	-	-0.03	-
Bandwidth at -3.0 dB	MHz	0.25	0.33	-
Bandwidth at -50.0 dB	MHz	-	0.98	1.1
Relative Attenuation:				
10.0 ~ 69.2 MHz	dB	50	57	-
70.8 ~ 110.0 MHz	dB	50	57	-



Frequency Response

