PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
807-IF456.0M-A	456MHz IF SAW Filter 7.6MHz Bandwidth

Specification Contents

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

Notes

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

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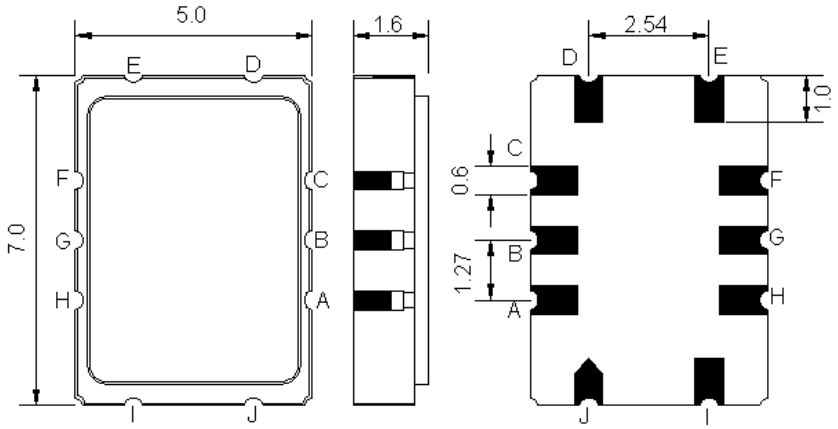
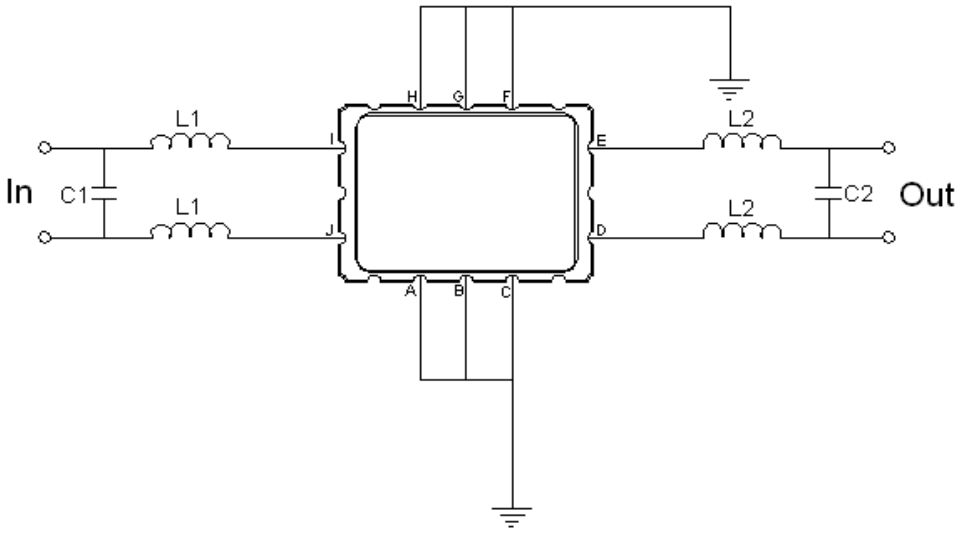
Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1=30nH, C1=7pF
Output	L2=24nH, C2=9pF
Source/Load Impedance	200 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	455.7	456.0	456.3
Insertion Loss at Fo	dB	-	14.5	16.5
Amplitude Ripple Variation	dB_{p-p}	-	1.0	1.5
Group Delay Variation	nsec	-	120	200
Absolute Delay at Fo	µsec	-	0.52	-
Temperature Coefficient	ppm/°C	-	-0.03	-
Bandwidth at –3.0 dB	MHz	7.0	7.6	-
Bandwidth at –40.0 dB	MHz	-	12.6	14.0
Relative Attenuation:				
Lower Sidelobe	dB	40	45	-
Upper Sidelobe	dB	40	43	-

Frequency Response