PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
820-IF65.54M-E	65.54MHz IF SAW Filter 18.95MHz 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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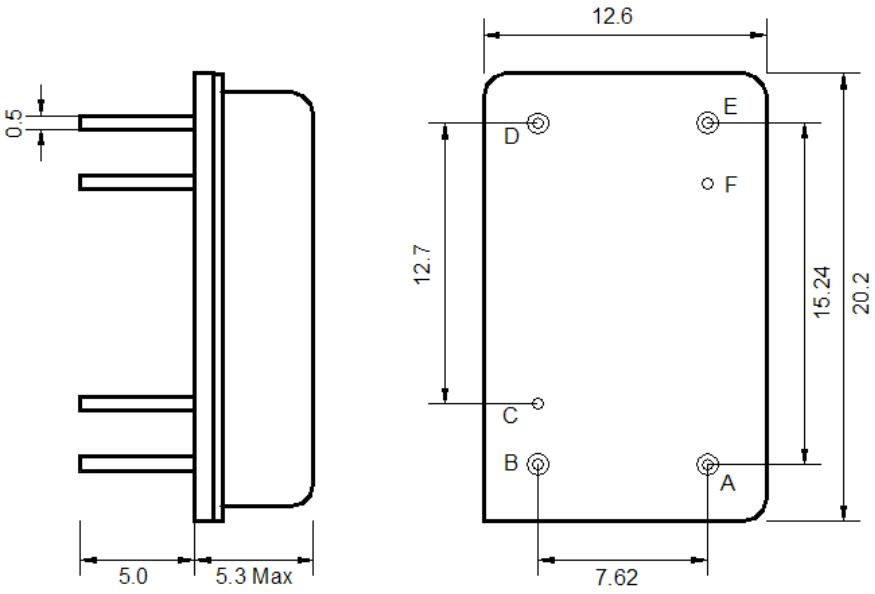
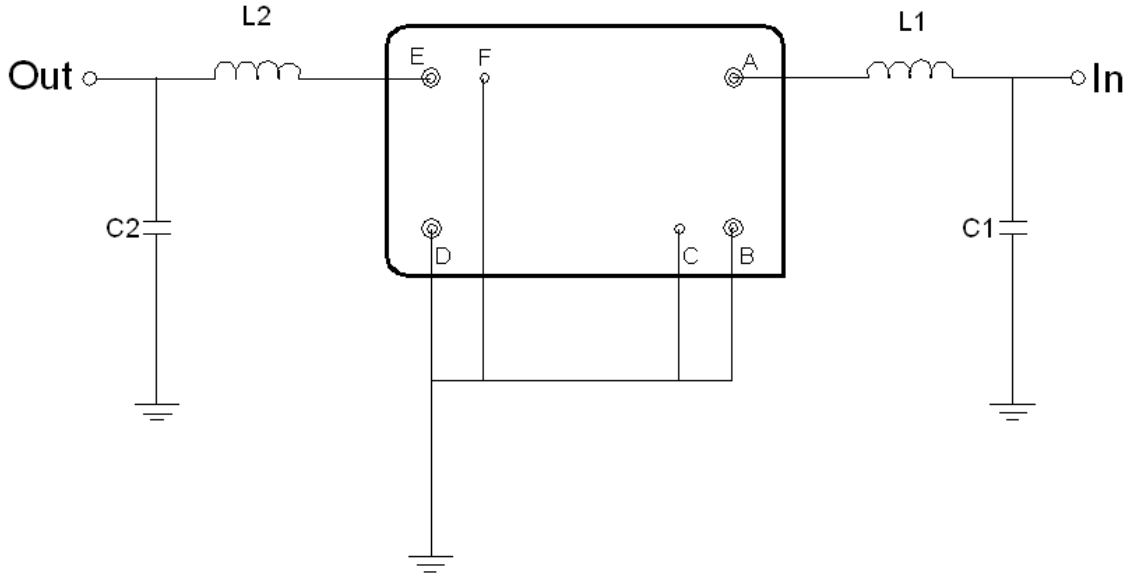
Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1 = 180 nH, C1 = 30 pF
Output	L2 = 180 nH, C2 = 30 pF
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	-

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	65.5	65.54	65.58
Insertion Loss at Fo	dB	-	25.4	26.5
Amplitude Ripple Variation (58.0MHz ~ 73.0 MHz)	dB_{p-p}	-	0.45	0.55
Group Delay Variation (58.0MHz ~ 73.0 MHz)	nsec	-	40	100
Absolute Delay at Fo	µsec	-	2.35	-
Temperature Coefficient	ppm/°C	-	-72	-
Bandwidth at –1.0 dB	MHz	18.95	19.23	-
Bandwidth at –3.0 dB	MHz	19.35	19.60	-
Bandwidth at –35.0 dB	MHz	-	20.86	21
Bandwidth at –40.0 dB	MHz	-	20.93	21.1
Attenuation Rejection (Fo±20MHz)	dB	55	60	-

Frequency Response