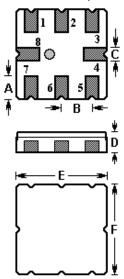


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The ACTF9019/1090/QCC8B is a low-loss, compact and economical "surface acoustic wave" (SAW) RF filter in an SMD QCC8B package for Digital Set Top Box applications.

1. Package Dimension (QCC8B)

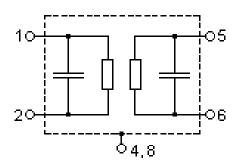


2.

Pin	Configuration		
1,2	Input		
5,6	Output		
3,7	To be grounded		
4,8	Case Ground		

Sign	Data (unit: mm)	Sign	Data (unit: mm)
А	1.00	D	1.50
В	1.27	Е	3.80
С	0.60	F	3.80

3. Equivalent LC Model



In keeping with our ongoing policy of product evolvement and improvement, the above specification is subject to change without notice.

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For quotations or further information please contact us at:

3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK

Issue: 1 C1

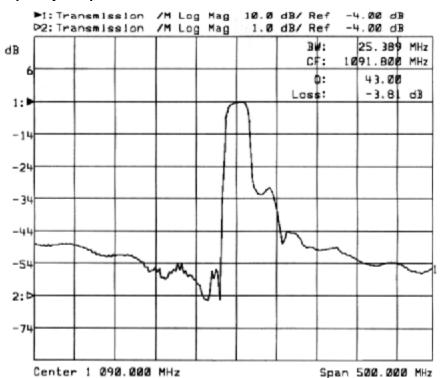


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Date: SEPT 04

4. Typical Frequency Response



5. Performance

5-1.Maximum ratings

Rating	Value	Units
Input Power Level	0	dBm
DC Voltage	0	V
Operable temperature range	-40 to +85	°C
Storage temperature range	-40 to +85	°C

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5-2. Electronic characteristics

Characteristic		Min.	Тур.	Max.	Units
Centre Frequency	f _C		1090.0		MHz
Minimum Insertion Loss 1084.00 1096.00 MHz	IL _{min}	3.5	4.0	5.5	dB
Ripple in passband 1084.00 1096.00 MHz	Δ α		1.0	3.0	dB
Relative attenuation (relative to IL _{min})	α_{rel}				
840.00 f _C -75.00 MHz f _C -75.00 f _C -30.00 MHz		36.0 44.0	42.0 50.0		
f _{C+} 30.00 f _C +60.00 MHz f _C +60.00 f _C +175.00 MHz		22.0 35.0	27.0 40.0		dB
f _C +175.00 . 1340.00 MHz		42.0	50.0		
Input / Output Impedance (Nominal)			50		Ω

i CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!

- 1. The frequency f_C is defined as the midpoint between the 3dB frequencies.
- 2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR≤1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter centre frequency, f_C. Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
- 3. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
- 4. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
- 5. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
- 6. Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.

In keeping with our ongoing policy of product evolvement and improvement, the above specification is subject to change without notice.

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