

Tel: +44 118 979 1238 Fax: +44 118 979 1283

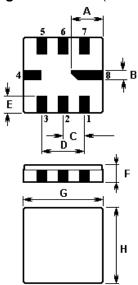
Email: info@actcrystals.com

Issue: 1 C1

Date: SEPT 04

This specification covers the characteristics of SAW Filter ACTF474/374.0/QCC8C, in a QCC8C package and is designed for use in wireless LAN applications.

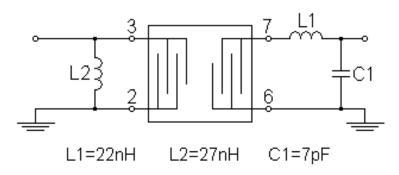
1.Package Dimension (QCC8C)



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

Sign	Data (unit: mm)	Sign	Data (unit: mm)
Α	2.08	Е	1.20
В	0.60	F	1.35
С	1.27	G	5.00
D	2.54	Н	5.00

3. Matching Network (50 Ω unbalanced)



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

ISO9001: 2000 Registered - Registration number 6830/2

For quotations or further information please contact us at:

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

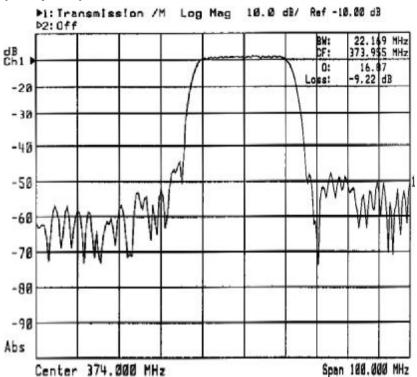


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4.Typical Frequency Response



5.Performance

5-1. Maximum Ratings

Rating		Value	Units	
Source Power	P_S	10	dBm	
DC Voltage	V_{DC}	0	V	
Storage Temperature		-40 to +85	°C	
Soldering Temperature		+235	°C	

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5-2. Electronic Characteristics

 $T_A = -10 ... +80 \, ^{\circ}\text{C}$ Operating temperature:

Terminating source impedance: $Z_S = 50 \Omega$ unbalanced and matching network Terminating load impedance: $Z_1 = 50 \Omega$ unbalanced and matching network

Characteristics		Minimum	Typical	Maximum	Units
Centre Frequency	f _C		374.000		MHz
Minimum insertion attenuation (including matching network)	α _{min}		9.0	10.5	dB
Bandwidth αrel ≤3 dB	BW _{3dB}	17	22		MHz
Amplitude ripple (p-p) f _C ±7MHz	Δα		0.5	1.0	dB
Group delay ripple (p-p) f _C ±7MHz	Δτ		40	100	ns
Triple transit suppression		30	40		dB
Relative attenuation (relative to α_{min}) 357.5 ~ 352.0 MHz 352.0 ~ 341.0 MHz 341.0 ~ 224.0 MHz 390.5 ~ 392.0 MHz 390.5 ~ 396.0 MHz 396.0 ~ 422.0 MHz 422.0 ~ 454.0 MHz	$lpha_{ m rel}$	30 40 48 20 30 38 40	42 45 52 38 42 44	 	dB dB dB dB dB dB
Temperature coefficient of frequency	T _{Cf}		-87		ppm/K

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

- 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 50 Ω test system with VSWR ≤1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter centre frequency, fc. 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.
- 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.

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