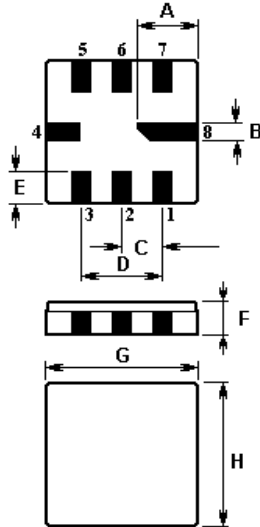


The **ACTF377/280.0/QCC8C** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) filter in a surface-mount ceramic **QCC8C** case for wireless LAN applications.

1.Package Dimension (QCC8C)

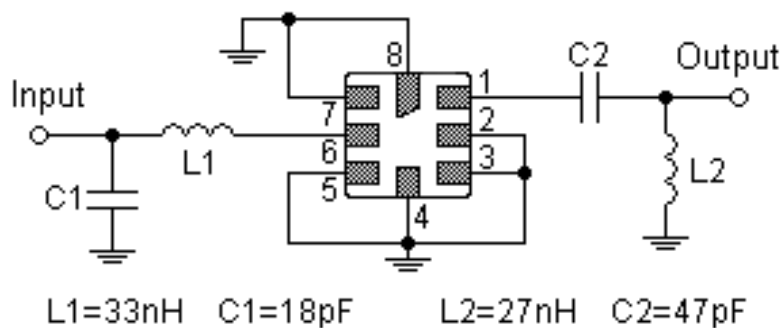


2.

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

Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	2.08	E	1.20
B	0.60	F	1.35
C	1.27	G	5.00
D	2.54	H	5.00

3. Matching Network (50 Ω unbalanced)



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

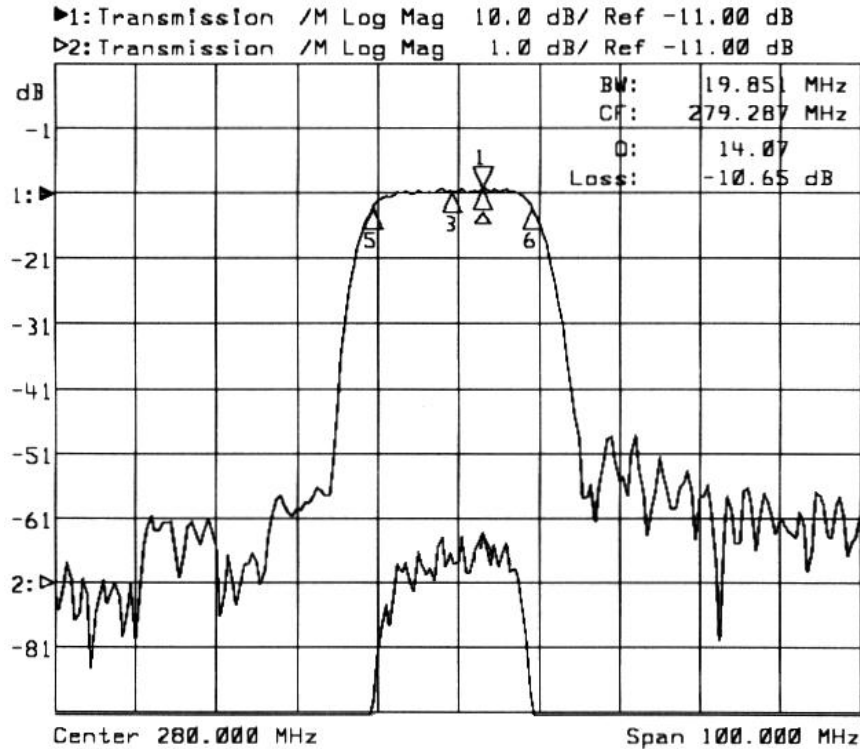
ISO9001: 2000 Registered - Registration number 6830/2

For quotations or further information please contact us at:

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

<http://www.actcrystals.com>

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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Issue : 1 C1

Date : SEPT 04

5-2. Electronic Characteristics

Operating temperature: $T_A = -10 \dots +60 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$ unbalanced and matching network
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$ unbalanced and matching network

Characteristics		Minimum	Typical	Maximum	Units
Centre frequency	f_C	--	280.000	--	MHz
Minimum insertion attenuation (including matching network)	α_{\min}	--	11.0	13.5	dB
3dB Bandwidth	$BW_{3\text{dB}}$	16	20	--	MHz
Amplitude ripple (p-p) $f_C \pm 7\text{MHz}$	$\Delta \alpha$	--	± 0.5	--	dB
Group delay ripple (p-p) $f_C \pm 7\text{MHz}$	$\Delta \tau$	--	40	100	ns
Relative attenuation (relative to α_{\min}) 230 MHz ~ 260 MHz 300 MHz ~ 330 MHz	α_{rel}	35 28	46 37	-- --	dB dB
Temperature coefficient of frequency	T_{Cf}	--	-87	--	ppm/K

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 50 Ω test system with VSWR $\leq 1.2:1$. 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.

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