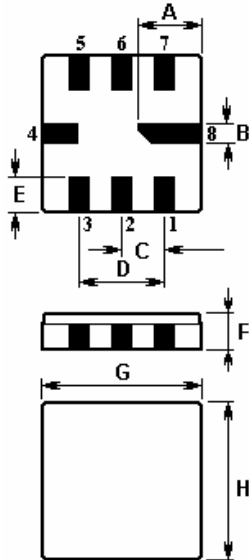


The **ACTF3031/315.0/QCC8C** is a low-loss, compact, and economical surface-acoustic-wave (SAW) RF filter in a surface-mount ceramic **QCC8C** case for domestic wireless receivers.

1. Package Dimension (QCC8C)



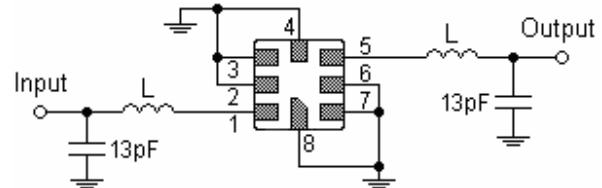
Pin	Connection
1	Input
2	Input Ground
5	Output
6	Output Ground
3, 7	to be Grounded
4, 8	Case Ground

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

2. Marking

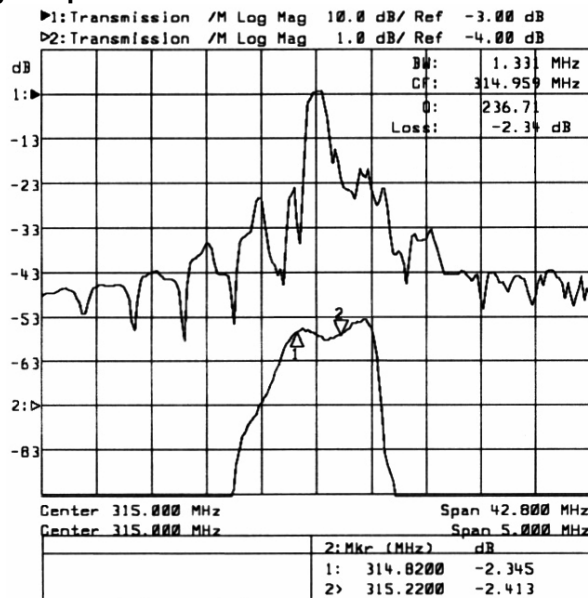
Laser Marking

3. Test Circuit



L= 5 turns of 0.5mm insulated Copper, 3.0mm ID

4. Typical Frequency Response



Please note that all parameters can not necessarily be specified in the same device

In line with our ongoing policy of product evolution and improvement, the above specification may subject to change without notice
For quotations or further information please contact us at: 3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG412EY, UK.

5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	P	10	dBm
DC Voltage	V_{DC}	12	V
Storage Temperature Range	T_{stg}	-40 to +125	
Operable Temperature Range	T_A	-40 to +125	

5-2. Electronic Characteristics

Characteristic		Minimum	Typical	Maximum	Unit
Center Frequency @ 25	f_C		315		MHz
Insertion Loss (314.82 315.22 MHz)	IL	--	2.5	4.5	dB
3dB Bandwidth	BW_3	1.0	1.3		MHz
Relative Attenuation (relative to IL)	α_{rel}				
10 270 MHz		45	55	--	dB
270 309 MHz		30	35	--	dB
309 314 MHz		15	20	--	dB
316 335 MHz		10	15	--	dB
335 400 MHz		35	42	--	dB
400 1000 MHz		45	60	--	dB
Passband Ripple (314.82 315.22 MHz)	IL	--	--	2.0	dB
Frequency Aging Absolute Value during the First Year	$ f_A $		≤10		ppm/yr

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

NOTE:

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.
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. 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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