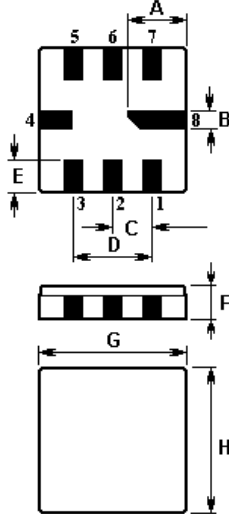


The **ACTF8026-868.69-QCC8C** is a RF low-loss filter in a surface-mount ceramic **QCC8C** case for remote control receivers.

1. Package Dimension (QCC8C)



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

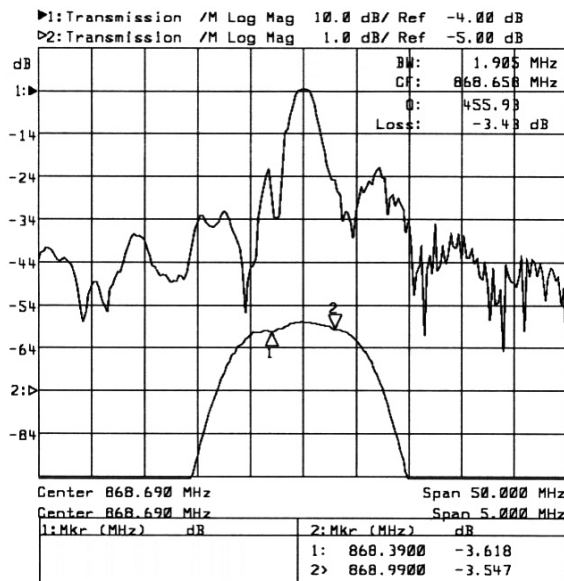
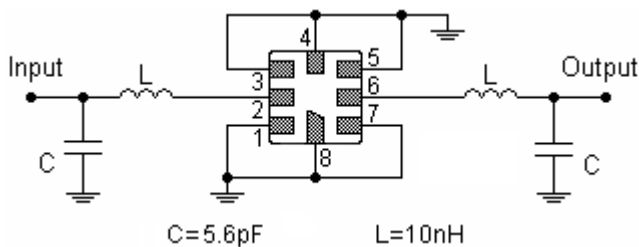
Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	2.08	E	1.20
B	0.60	F	1.35
C	1.27	G	5.00
D	2.54	H	5.00

2. Marking

Laser Printing

3. Test Circuit

4. Typical Frequency Response



In line with our ongoing policy of product evolution and improvement, the above specification may subject to change without notice

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

<http://www.actcrystals.com>

5. Performance

5-1. Maximum Rating

Rating		Value	Unit
Input Power Level	P_{in}	10	dBm
DC Voltage	V_{DC}	12	V
Storage Temperature Range	T_{stg}	-40 to +90	°C
Operating Temperature Range	T_A	-40 to +90	°C

5-2. Electronic Characteristics (@25 °C)

Characteristic		Minimum	Typical	Maximum	Unit
Center Frequency (center frequency between 3dB points)	f_c		868.69		MHz
Insertion Loss 868.39 868.99 MHz	IL	--	3.8	5.0	dB
3dB Pass Bandwidth	BW_3		1.9		MHz
Relative Attenuation (relative to IL)	\pm_{rel}				
10.00 700.00 MHz		50	55	--	dB
700.00 830.00 MHz		33	38	--	dB
830.00 863.00 MHz		23	28	--	dB
873.00 880.00 MHz		15	20	--	dB
880.00 1000.0 MHz		30	35	--	dB

ⓘ 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_{d1.2:1}. The test fixture L and C are adjusted for minimum insertion loss at the filter center 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. Frequency aging is the change in f_c with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.
5. Turnover temperature, T_0 , is the temperature of maximum (or turnover) frequency, f_0 . The nominal frequency at any case temperature, T_C , may be calculated from: $f = f_0 [1 - FTC (T_0 - T_C)^2]$.
6. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
7. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.

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