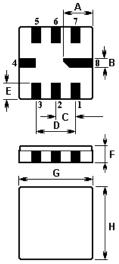


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The **ACTF8026-868.69-QCC8C** is a RF low-loss filter in a surface-mount ceramic **QCC8C** case for remote control receivers.

1. Package Dimension (QCC8C)



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

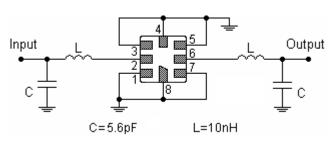
Sign	Data (unit: mm)	Sign	Data (unit: mm)
Α	2.08	E	1.20
В	0.60	F	1.35
С	1.27	G	5.00
D	2.54	Н	5.00

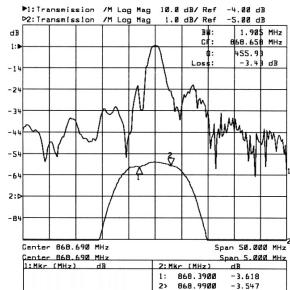
2. Marking

3. Test Circuit

Laser Printing

4. Typical Frequency Response





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

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5. Performance

5-1.Maximum Rating

Rating	Value	Unit	
Input Power Level	P_{in}	10	dBm
DC Voltage	$V_{ m DC}$	12	V
Storage Temperature Range	\mathcal{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 <i>IL</i>) 10.00 700.00 MHz 700.00 830.00 MHz 830.00 863.00 MHz 873.00 880.00 MHz 880.00 1000.0 MHz	\pm_{rel}	50 33 23 15 30	55 38 28 20 35	 	dB dB dB dB dB

(i) 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 50© test system with VSWRd1.2:1. 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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