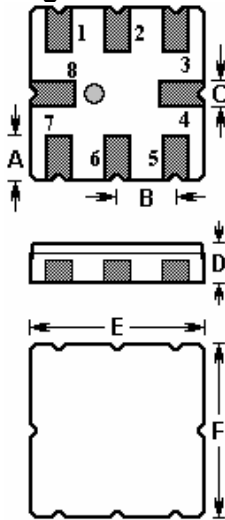


The ACTF4035/433.92/QCC8B is a low-loss, compact, and economical surface-acoustic-wave (SAW) RF filter in a surface-mount ceramic QCC8B case for remote control receivers.

## 1. Package Dimension (QCC8B)



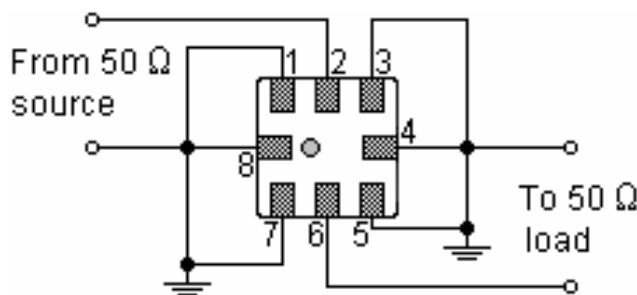
Pin	Configuration
2	Input
1, 3	Input Ground
6	Output
5, 7	Output Ground
4, 8	to be grounded

Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	1.00	D	1.50
B	1.27	E	3.80
C	0.60	F	3.80

## 2. Marking

Laser Marking

## 3. Matching Circuit



No matching network required for operation at 50Ω

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:**

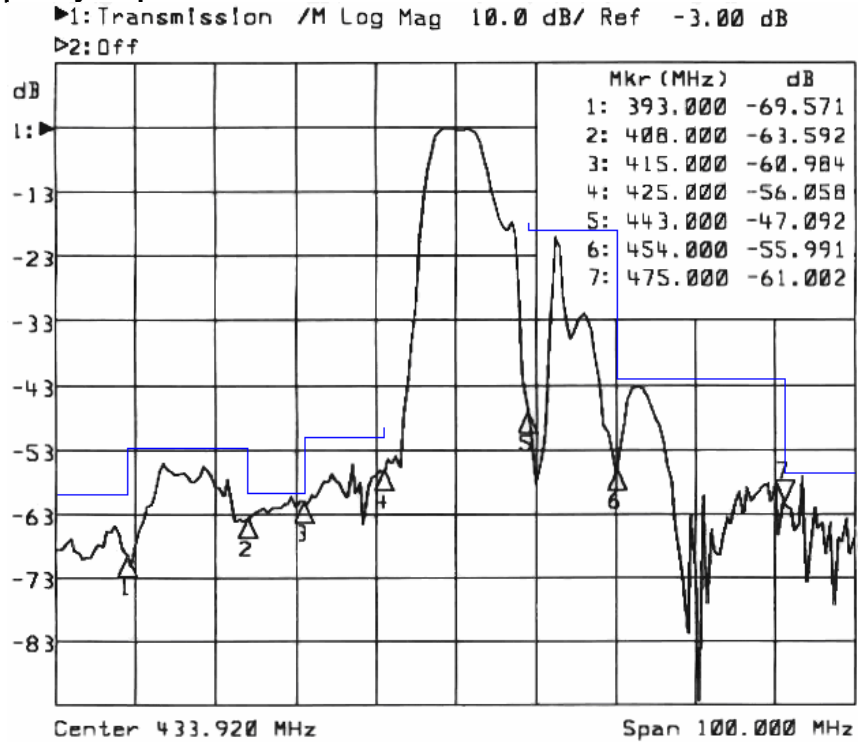
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Date : SEPT 06

#### 4. Typical frequency response



#### 5. Electronic Characteristics

##### 5-1. Maximum Ratings

Rating		Value	Unit
Source Power	$P_S$	10	dBm
DC Voltage	$V_{DC}$	0	V
Operable Temperature Range	$T_A$	-40 to +85	°C
Storage Temperature Range	$T_{stg}$	-45 to +90	°C

##### 5-2. Electronic Characteristics

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Operating Temperature Range: T = -40°C to 85°C  
 Terminating Impedance:  $Z_S = 50\Omega$  /  $Z_L = 50\Omega$

Characteristic	Min.	Typ.	Max.	Unit
Centre Frequency $f_C$		433.920		MHz
Insertion Loss 433.00 .... 434.71 MHz $IL$	--	2.8	4.0	dB
Amplitude Ripple (p-p) 433.00 .... 434.71 MHz $\Delta\alpha$	--	0.3	1.0	dB
Relative Attenuation (relative to $IL$ ) 10.00 .... 350.00 MHz $\alpha_{rel}$	60	65	--	dB
350.00 .... 393.00 MHz	52	57	--	dB
393.00 .... 408.00 MHz	45	50	--	dB
408.00 .... 415.00 MHz	52	57	--	dB
415.00 .... 425.50 MHz	40	48	--	dB
443.50 .... 454.00 MHz	12	16	--	dB
454.00 .... 475.00 MHz	34	39	--	dB
475.00 .... 650.00 MHz	48	53	--	dB
650.00 .... 1000.0 MHz	45	49	--	dB
Temperature Coefficient of Frequency $TC_f$	--	-30	--	ppm/K

**ⓘ 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 $\Omega$  test system with VSWR $\leq$ 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. 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.

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

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