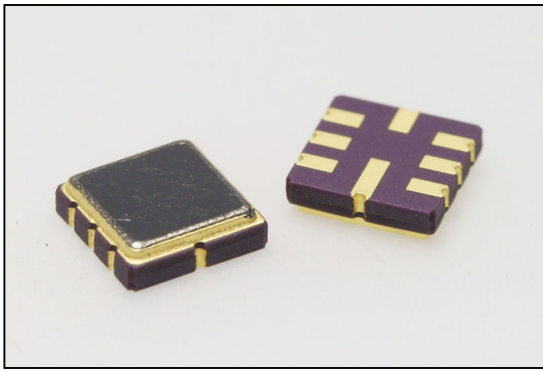


Central frequency - 414 MHz

Passband - 18.5 MHz

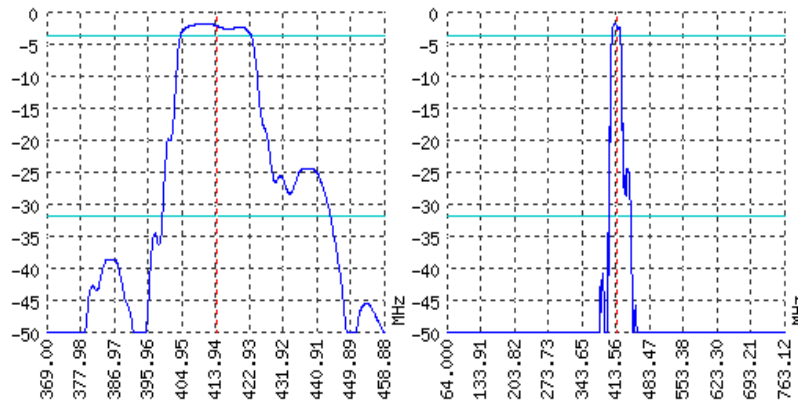
Complies with Directive 2002/95/EC (RoHS)

Looking for information on other SAW devices at: <http://aec-pro.com/filters.php>

Designed by: Ltd. AEC Design

Mass production: Ltd. AEC

## TYPICAL PERFORMANCE



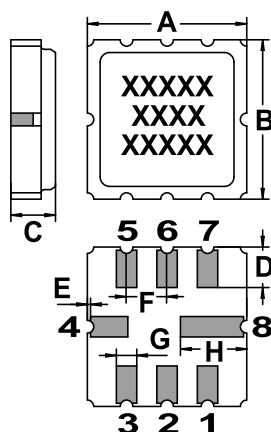
## SPECIFICATIONS

Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	413.5	414	414.5
Insertion loss	dB	1.7	1.9	2.2
Bandwidth at -2 дБ	MHz	18	18.5	19
Bandwidth at -30 дБ	MHz	-	45	47
Amplitude ripple	dB	0.5	1	1.5
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	35	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Lithium niobate 64	-

## Notes:

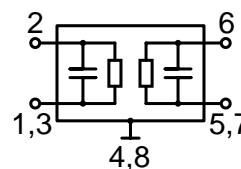
- The design, manufacturing process, and specifications of this filter are subject to change.
- Specification valid for measurements in AEC test fixture.

## CASE QCC 8

<http://aec-pro.com/cases.php>

DIMENSIONS (mm)	
A	5
B	5
C	1.4
D	1.27
E	0.1
F	1.27
G	0.64
H	2.08

## MATCHING



Input 50 Om		Output 50 Om	
L1, nH	-	L2, nH	-
C1, pF	-	C2, pF	-

Signal input: 2  
 Ground (input): 1,3  
 Signal output: 6  
 Ground (output): 5,7  
 Ground: other pin

\*Matching condition depends on PCB layout.

## Recommendations:

- Maximum permissible input signal power in the bandwidth should be less than 100 mW.
- Input signal amplitude in the stop band is limited to 5 V.
- DC voltage at the input (output) of the filter should not exceed 10 V.
- It is recommended to include the coupling capacitor between the device and the generator (load).
- SAW filters are sensitive to static electricity, therefore corresponding precautions should be taken while working with them.
- Do not expose the device to frequency vibrations more than 5 kHz. Do not use ultrasonic cleaners.

## Design and production SAW filters, resonators, delay lines, sensors.



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