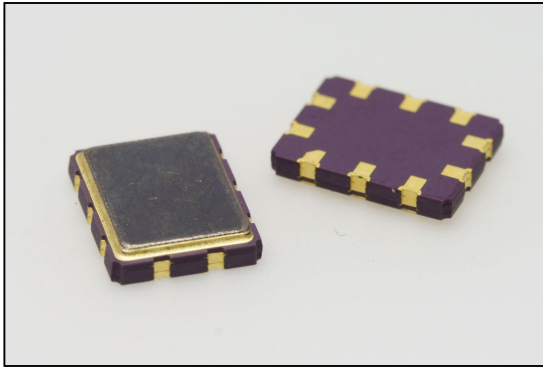


Central frequency - 148.5 MHz

Passband - 2.85 MHz

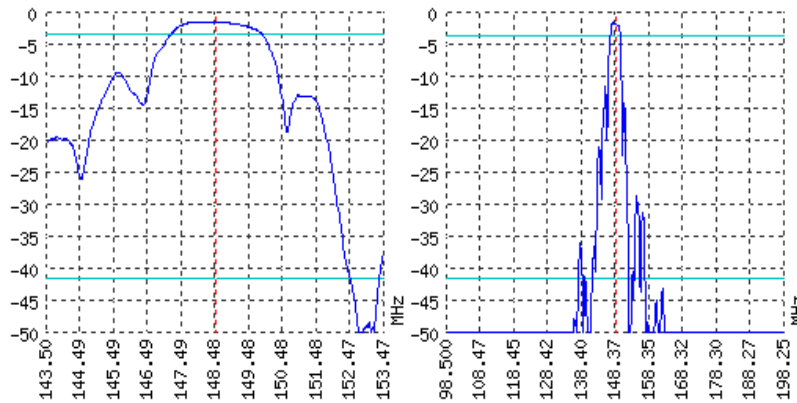
Complies with Directive 2002/95/EC (RoHS)

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

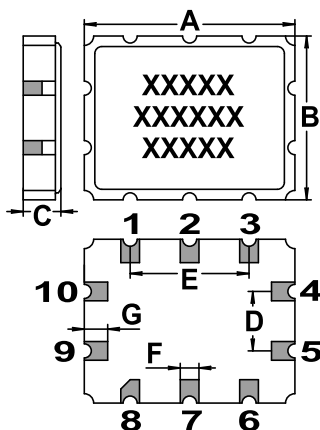
Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	148.25	148.5	148.75
Insertion loss	dB	1.1	1.6	2
Bandwidth at -2 дБ	MHz	-	2.85	-
Bandwidth at -40 дБ	MHz	-	20	-
Amplitude ripple	dB	-	1.5	2
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	50	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Lithium niobate 128	-

## Notes:

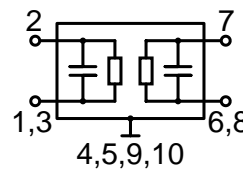
- The design, manufacturing process, and specifications of this filter are subject to change.
- Specification valid for measurements in AEC test fixture.

## CASE QCC 10-1

## MATCHING


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


DIMENSIONS (mm)	
A	9.1
B	7.1
C	1.61
D	2.54
E	5.08
F	0.8
G	1.2
H	0.2
J	1.1



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

Signal input: 2  
 Ground (input): 1,3  
 Signal output: 7  
 Ground (output): 6,8  
 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.



Ltd. AEC Mass production. Acceptance - QCID.  
[aec@aec-pro.com](mailto:aec@aec-pro.com) | tel./fax (812)252-93-70



Ltd. AEC Design Design and production. Military acceptance.  
[admin@aec-design.com](mailto:admin@aec-design.com) | tel.(812)377-04-26 | fax.(812)364-60-69