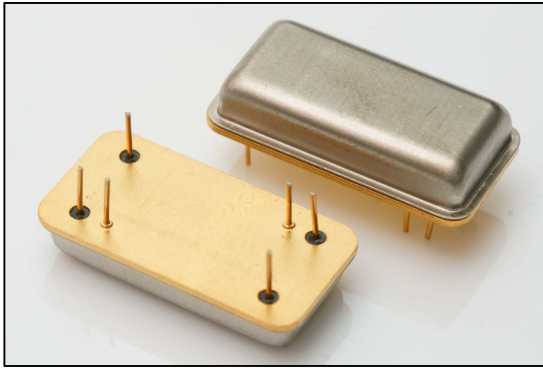


Central frequency - 172.4 MHz

Passband - 5 MHz

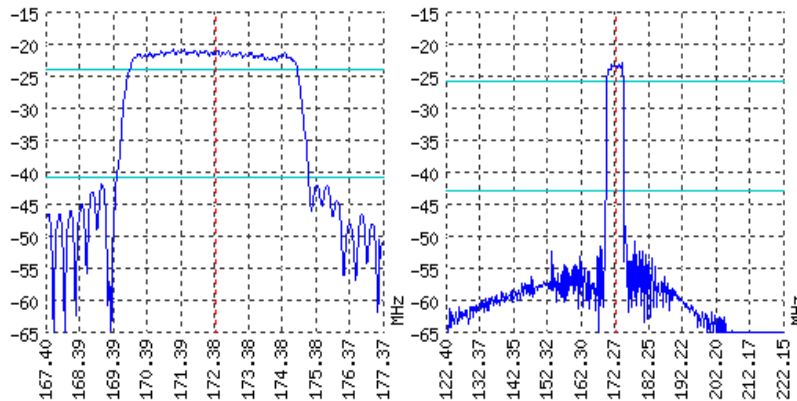
Complies with Directive 2002/95/EC (RoHS)

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



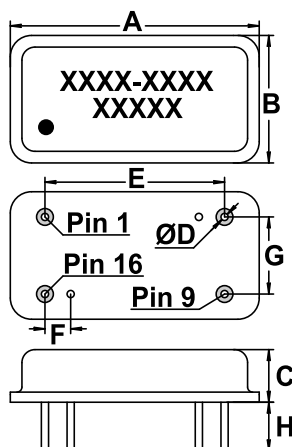
## SPECIFICATIONS

Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	172.35	172.4	172.45
Insertion loss	dB	-	22	25
Bandwidth at -3 дБ	MHz	4.95	5	5.05
Bandwidth at -20 дБ	MHz	-	5.5	5.8
Amplitude ripple	dB	-	2	3
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	40	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Lithium tantalate 112	-

## Notes:

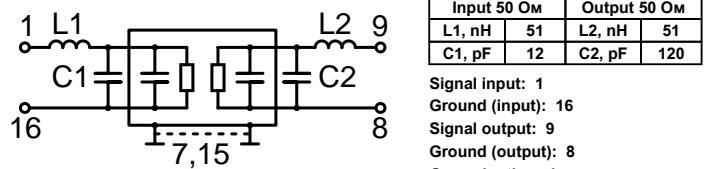
1. The design, manufacturing process, and specifications of this filter are subject to change.
2. Specification valid for measurements in AEC test fixture.

## CASE DIP 16


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


DIMENSIONS (mm)	
A	24.6
B	12.6
C	5.2
D	0.45
E	17.78
F	2.54
G	7.62
H	4.8

## MATCHING



Input 50 Ohm		Output 50 Ohm	
L1, nH	51	L2, nH	51
C1, pF	12	C2, pF	120

Signal input: 1  
 Ground (input): 16  
 Signal output: 9  
 Ground (output): 8  
 Ground: other pin

\*Matching condition depends on PCB layout.

## Recommendations:

1. See the relevant ЦПАП for maximum permissible input signal power in the bandwidth.
2. Input signal amplitude in the stop band is limited to 5 V.
3. DC voltage at the input (output) of the filter should not exceed 10 V.
4. It is recommended to include the coupling capacitor between the device and the generator (load).
5. SAW filters are sensitive to static electricity, therefore corresponding precautions should be taken while working with them.
6. 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