

Central frequency - 172.4 MHz

Passband - 5 MHz

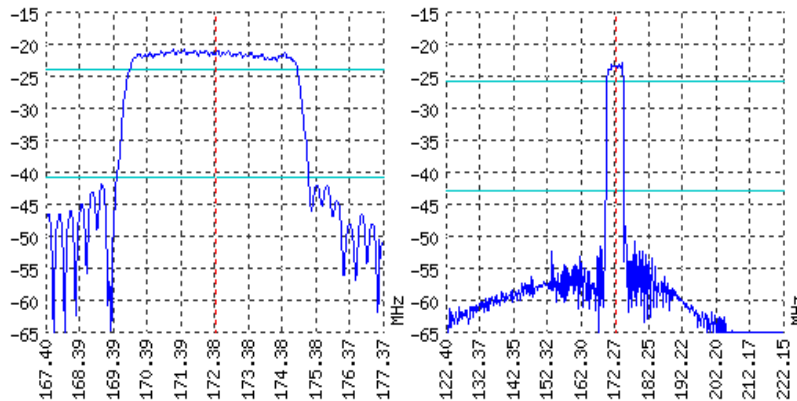
Complies with Directive 2002/95/EC (RoHS)

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



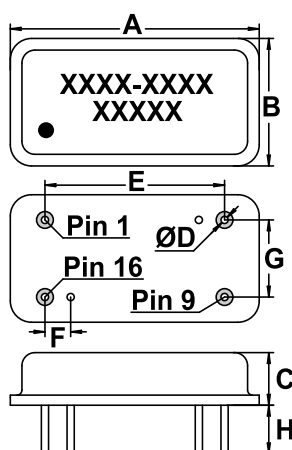
SPECIFICATIONS

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:

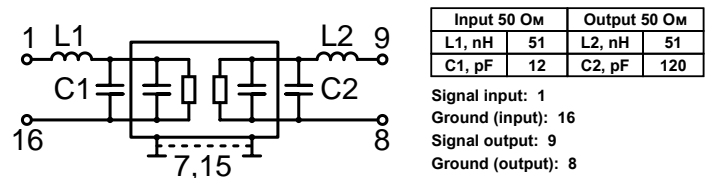
- The design, manufacturing process, and specifications of this filter are subject to change.
- Specification valid for measurements in AEC test fixture.

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 Om		Output 50 Om	
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:

- 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.

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

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