

Central frequency - 461.5 MHz

Passband - 7.8 MHz

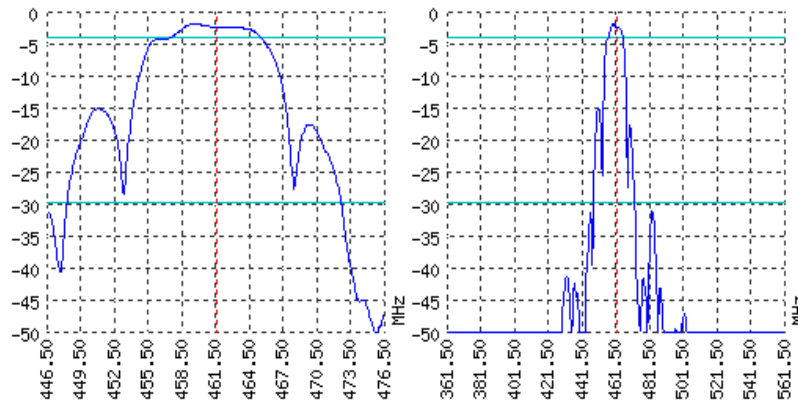
Complies with Directive 2002/95/EC (RoHS)

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



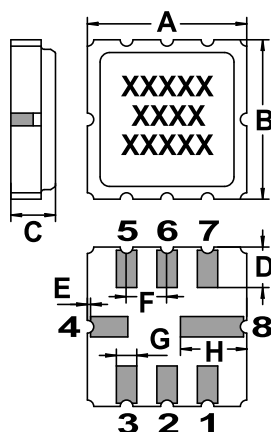
SPECIFICATIONS

Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	460.9	461.5	462.1
Insertion loss	dB	-	2.5	3.2
Bandwidth at -2 дБ	MHz	7.2	7.8	9
Bandwidth at -28 дБ	MHz	-	24.5	-
Amplitude ripple	dB	-	0.5	1
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	50	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Lithium niobate 128	-

Notes:

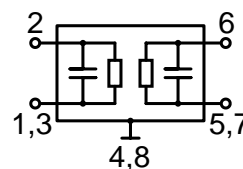
- The design, manufacturing process, and specifications of this filter are subject to change.
- Specification valid for measurements in AEC test fixture.

CASE QCC 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 Ohm	Output 50 Ohm
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.



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



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