

Central frequency - 45 MHz

Passband - 0.75 MHz

Complies with Directive 2002/95/EC (RoHS)

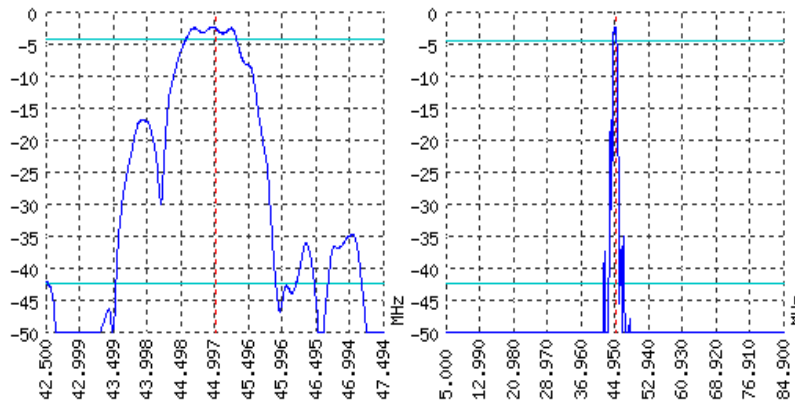


Looking for information on other SAW devices at: <http://aec-pro.com/filters.php>

Designed by: Ltd. AEC Design

Mass production: Ltd. AEC

TYPICAL PERFORMANCE



SPECIFICATIONS

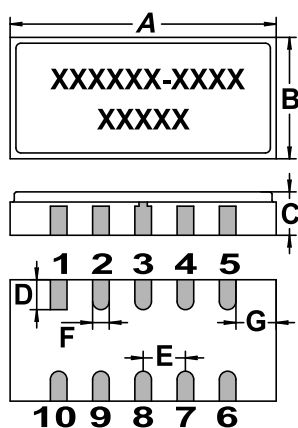
Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	44.95	45	45.05
Insertion loss	dB	-	2.3	2.6
Bandwidth at -2 дБ	MHz	0.74	0.75	-
Bandwidth at -40 дБ	MHz	-	5.15	-
Amplitude ripple	dB	-	1	2
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	45	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	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 DLCC 10/10-1

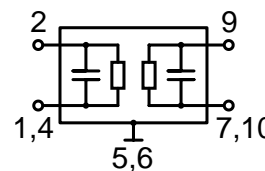
MATCHING



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



DIMENSIONS (mm)	
A	16
B	7.3
C	2.61
D	1.8
E	2.54
F	1
G	2.42



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

Signal input: 2
 Ground (input): 1,4
 Signal output: 9
 Ground (output): 7,10
 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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