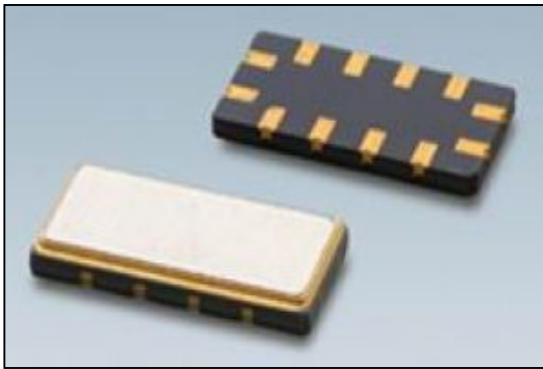


Central frequency - 109.9 MHz

Passband - MHz

Complies with Directive 2002/95/EC (RoHS)

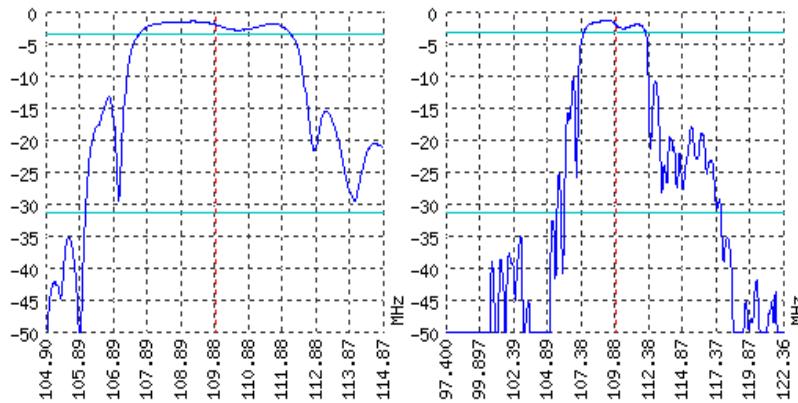


Looking for information on other SAW devices at: <http://aec-pro.com/filters.php>

Designed by: Ltd. AEC Design

Mass production: Ltd. AEC

TYPICAL PERFORMANCE



SPECIFICATIONS

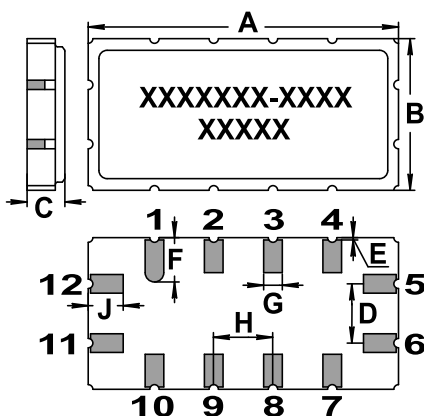
Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	109.75	109.9	110.05
Insertion loss	dB	-	-	1.7
Bandwidth at -2 дБ	MHz	4.4	-	-
Bandwidth at -30 дБ	MHz	-	-	12.5
Amplitude ripple	dB	-	-	2
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	30	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Lithium niobate 64	-

Notes:

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

CASE SMP53-2

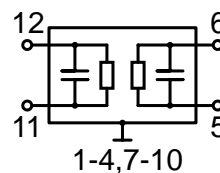
MATCHING



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



DIMENSIONS (mm)	
A	13.3
B	6.5
C	1.62
D	2.54
E	0.1
F	1.9
G	0.8
H	2.54
J	1.5



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

Signal input: 12  
 Ground (input): 11  
 Signal output: 6  
 Ground (output): 5  
 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.

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

**Design** 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