

Central frequency - 30 MHz

Passband - 2.3 MHz

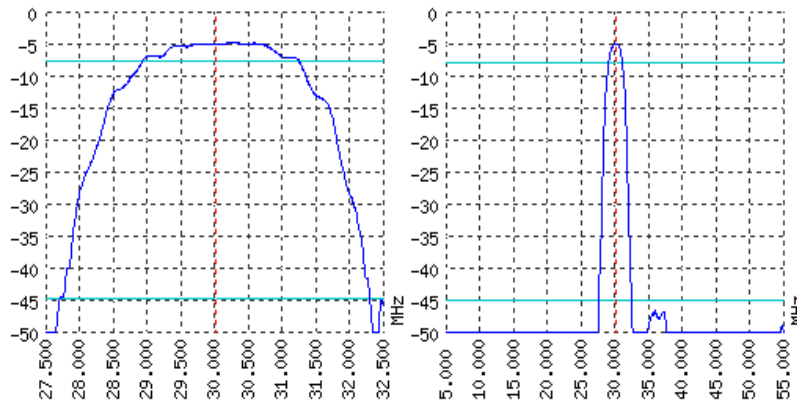
Complies with Directive 2002/95/EC (RoHS)

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



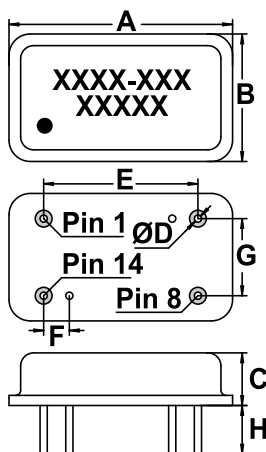
## SPECIFICATIONS

Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	29.9	30	30.1
Insertion loss	dB	-	4.5	5
Bandwidth at -3 дБ	MHz	2.1	2.3	2.5
Bandwidth at -40 дБ	MHz	-	4.5	-
Amplitude ripple	dB	-	2	3
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	40	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Lithium niobate 128	-

## Notes:

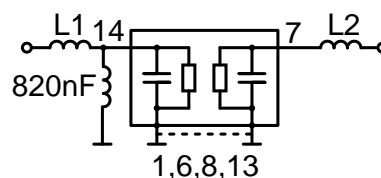
- The design, manufacturing process, and specifications of this filter are subject to change.
- Specification valid for measurements in AEC test fixture.

## CASE DIP 14

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

DIMENSIONS (mm)	
A	22.1
B	12.6
C	5.2
D	0.45
E	15.25
F	2.54
G	7.62
H	4.8

## MATCHING



Input 50 Ohm		Output 50 Ohm	
L1, nH	270	L2, nH	330
C1, pF	-	C2, pF	-

Signal input: 14  
Signal output: 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.



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