

Central frequency - 321 MHz

Passband - 6.5 MHz

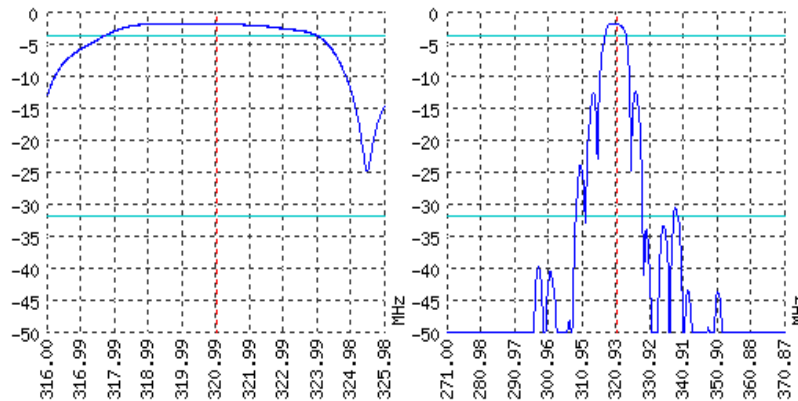
Complies with Directive 2002/95/EC (RoHS)

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



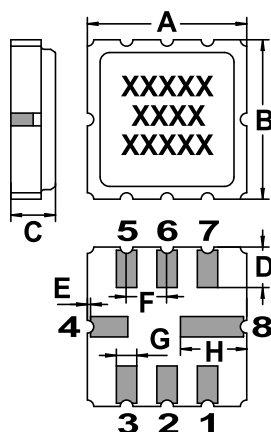
## SPECIFICATIONS

| Parameter             | Unit | Minimum | Typical             | Maximum |
|-----------------------|------|---------|---------------------|---------|
| Central frequency     | MHz  | 320.6   | 321                 | 321.4   |
| Insertion loss        | dB   | -       | 1.8                 | 2       |
| Bandwidth at -2 дБ    | MHz  | 5.5     | 6.5                 | 7       |
| Bandwidth at -30 дБ   | MHz  | -       | 20                  | -       |
| Amplitude ripple      | dB   | -       | -                   | 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 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 Om |   | Output 50 Om |   |
|-------------|---|--------------|---|
| 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:

- See the relevant ЦПАП for maximum permissible input signal power in the bandwidth.
- 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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