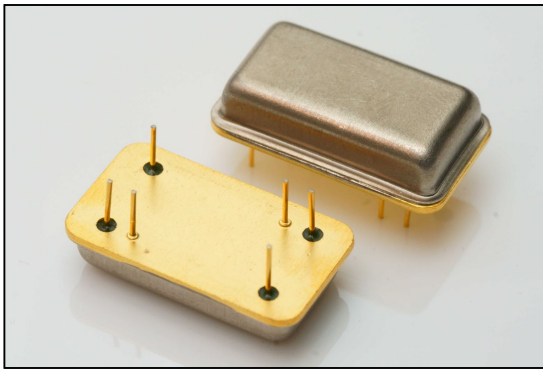


Central frequency - 30 MHz

Passband - 2.3 MHz

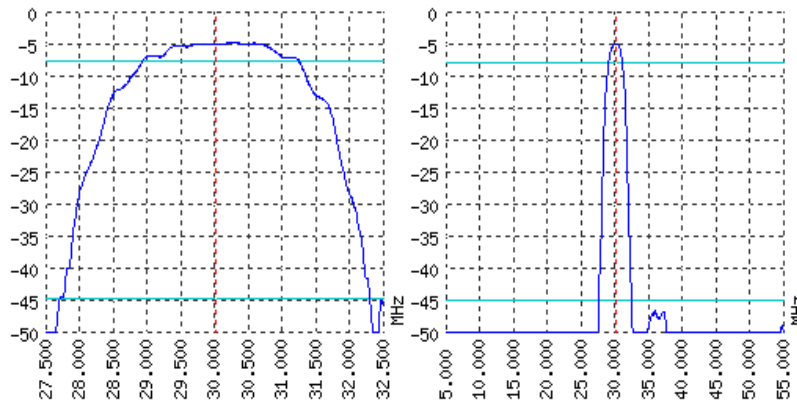
Complies with Directive 2002/95/EC (RoHS)

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



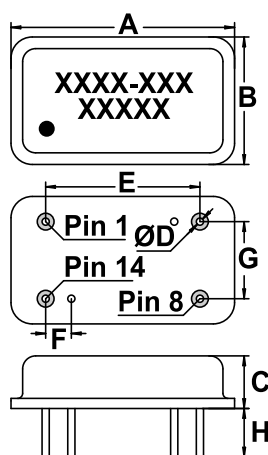
SPECIFICATIONS

| 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:

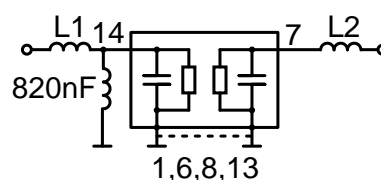
- The design, manufacturing process, and specifications of this filter are subject to change.
- Specification valid for measurements in AEC test fixture.

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 Om | | Output 50 Om | |
|-------------|-----|--------------|-----|
| 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:

- 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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