



Central frequency - 191.75 MHz

Passband - 20.75 MHz

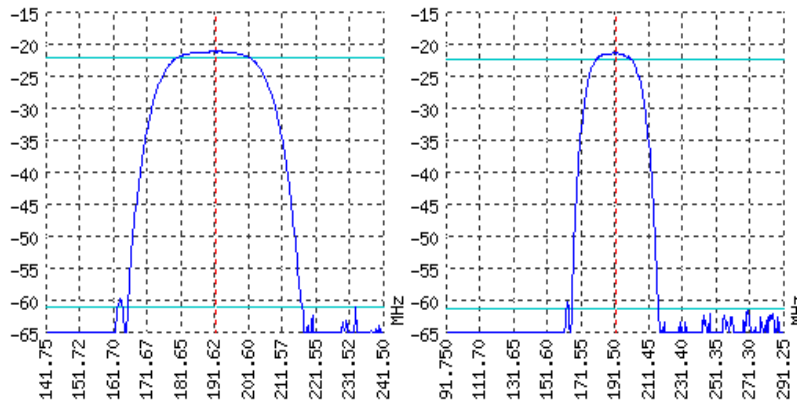
Complies with Directive 2002/95/EC (RoHS)

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

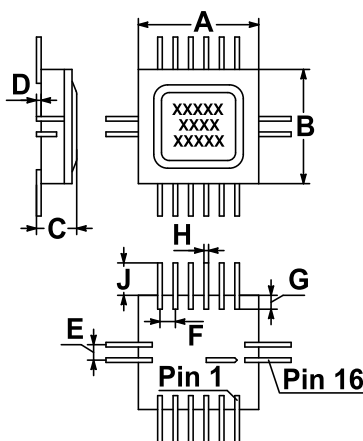
| Parameter             | Unit | Minimum | Typical             | Maximum |
|-----------------------|------|---------|---------------------|---------|
| Central frequency     | MHz  | 191     | 191.75              | 192     |
| Insertion loss        | dB   | 19.5    | 20.5                | 21.5    |
| Bandwidth at -1 дБ    | MHz  | 20      | 20.75               | 21.5    |
| Bandwidth at -40 дБ   | MHz  | -       | 51.75               | -       |
| Amplitude ripple      | dB   | 0.3     | 0.5                 | 0.7     |
| Group Delay Ripple    | ns   | 3       | 6                   | 10      |
| Ultimate rejection    | dB   | -       | 50                  | -       |
| Operating temperature | °C   | -55     | 22                  | +85     |
| Substrate             | -    | -       | Lithium niobate 128 | -       |

## Notes:

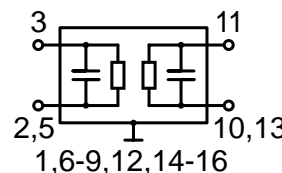
1. The design, manufacturing process, and specifications of this filter are subject to change.
2. Specification valid for measurements in AEC test fixture.

## CASE H 04.16-2BH

## MATCHING

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

| DIMENSIONS (mm) |     |
|-----------------|-----|
| A               | 7.8 |
| B               | 7.4 |
| C               | 2.9 |
| D               | 0.2 |
| E               | 1   |
| F               | 1   |
| G               | 0.9 |
| H               | 0.3 |
| J               | 3   |



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

Signal input: 3  
 Ground (input): 2,5  
 Signal output: 11  
 Ground (output): 10,13  
 Ground: other pin

\*Matching condition depends on PCB layout.

## Recommendations:

1. See the relevant ЦПАП for maximum permissible input signal power in the bandwidth.
2. Input signal amplitude in the stop band is limited to 5 V.
3. DC voltage at the input (output) of the filter should not exceed 10 V.
4. It is recommended to include the coupling capacitor between the device and the generator (load).
5. SAW filters are sensitive to static electricity, therefore corresponding precautions should be taken while working with them.
6. 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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