

Central frequency - 48.384 MHz

Passband - 0.45 MHz

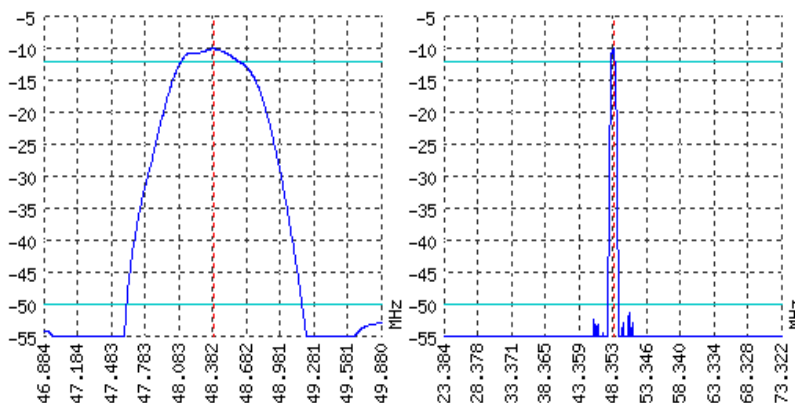
Complies with Directive 2002/95/EC (RoHS)

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

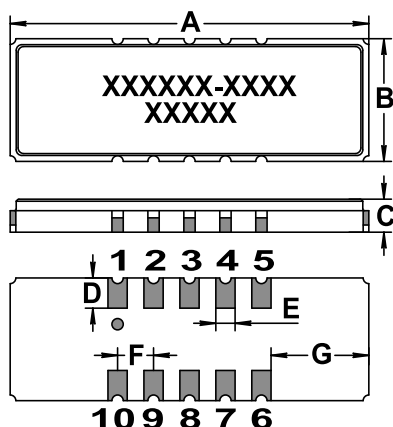
| Parameter | Unit | Minimum | Typical | Maximum |
|-----------------------|------|---------|-----------|---------|
| Central frequency | MHz | 48.354 | 48.384 | 48.414 |
| Insertion loss | dB | - | - | 10.5 |
| Bandwidth at -2 дБ | MHz | 0.45 | - | - |
| Bandwidth at -40 дБ | MHz | - | - | 1.6 |
| Amplitude ripple | dB | - | - | 1 |
| Group Delay Ripple | ns | - | - | - |
| Ultimate rejection | dB | - | 45 | - |
| Operating temperature | °C | -55 | 22 | +85 |
| Substrate | - | - | Quartz 36 | - |

Notes:

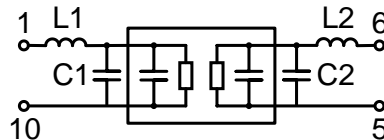
- For information. Order a CKTH.433561.280 TY for a complete and updated data.
- Specification valid for measurements in AEC test fixture.

CASE SMP-75

MATCHING

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

| DIMENSIONS (mm) | |
|-----------------|-------|
| A | 19 |
| B | 6.5 |
| C | 1.75 |
| D | 1.6 |
| E | 1.02 |
| F | 1.905 |
| G | 5.18 |



| Input 50 Om | | Output 50 Om | |
|-------------|-------|--------------|-------|
| L1, nH | 1233 | L2, nH | 1380 |
| C1, pF | 14-70 | C2, pF | 14-70 |

Signal input: 1
Ground (input): 10
Signal output: 6
Ground (output): 5
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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