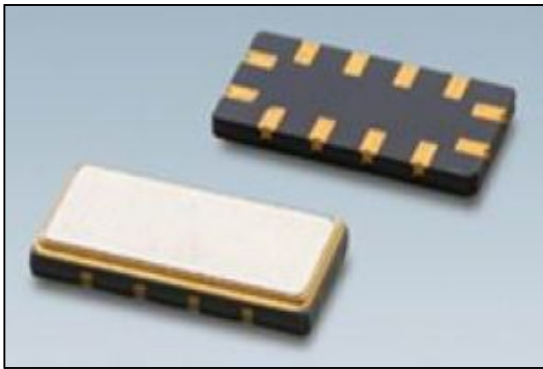


Central frequency - 89 MHz

Passband - 1.5 MHz

Complies with Directive 2002/95/EC (RoHS)

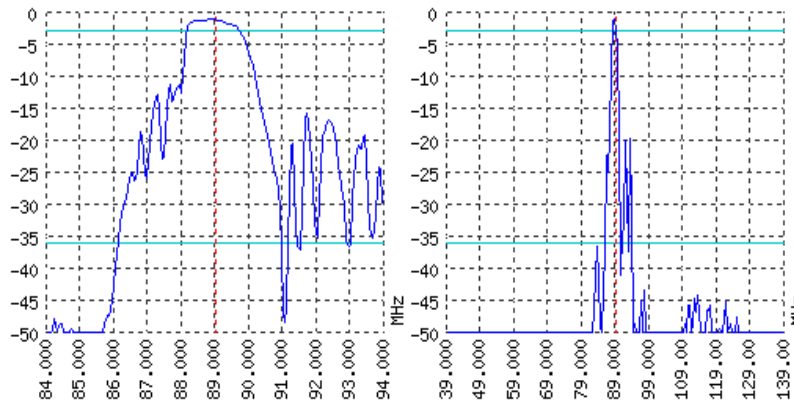


Looking for information on other SAW devices at: <http://aec-pro.com/filters.php>

Designed by: Ltd. AEC Design

Mass production: Ltd. AEC

TYPICAL PERFORMANCE



SPECIFICATIONS

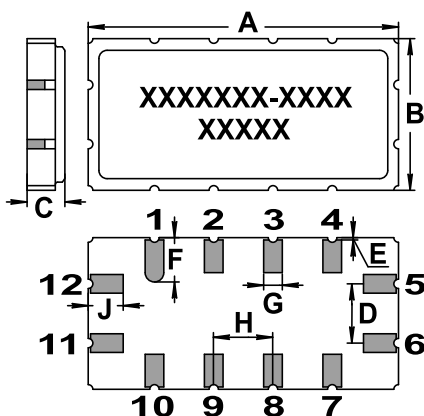
Parameter	Unit	Low frequency	Typical	Upper frequency
Central frequency	MHz	-	89	-
Insertion loss	dB	-	Not more 1.2	-
Bandwidth edge -2dB level	MHz	Not more 88.3	-	Not less 89.7
Bandwidth edge -35dB level	MHz	Not less 85	-	Not more 95
Amplitude ripple	dB	-	Not more 2	-
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	35	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Quartz 36	-

Notes:

- For information. Order a ЦПАР.433561.53 TY for a complete and updated data.
- Specification valid for measurements in AEC test fixture.

CASE SMP53-2

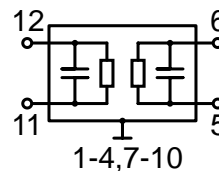
MATCHING



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



DIMENSIONS (mm)	
A	13.3
B	6.5
C	1.62
D	2.54
E	0.1
F	1.9
G	0.8
H	2.54
J	1.5



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

Signal input: 12
 Ground (input): 11
 Signal output: 6
 Ground (output): 5
 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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