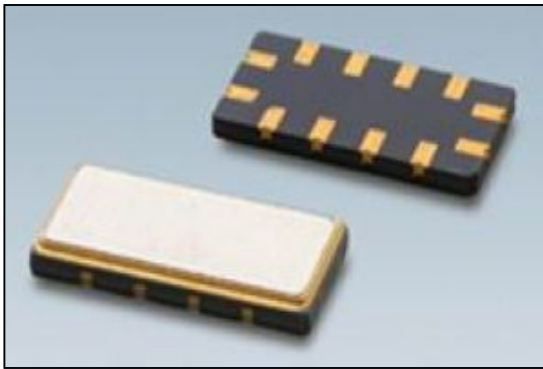


Central frequency - 145 MHz

Passband - 0.34 MHz

Complies with Directive 2002/95/EC (RoHS)

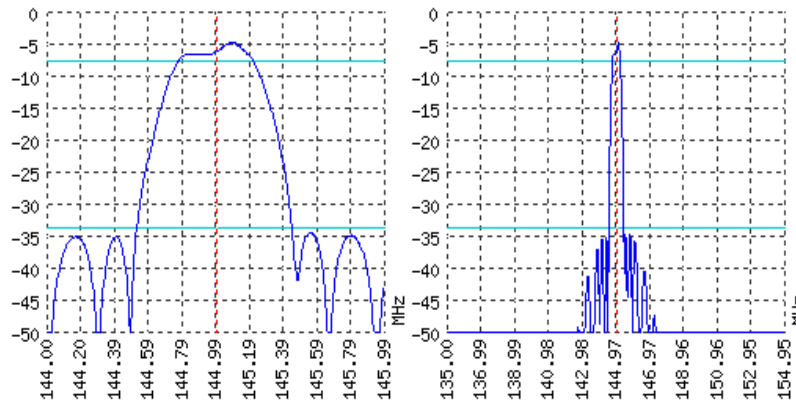


Looking for information on other SAW devices at: <http://aec-pro.com/filters.php>

Designed by: Ltd. AEC Design

Mass production: Ltd. AEC

TYPICAL PERFORMANCE



SPECIFICATIONS

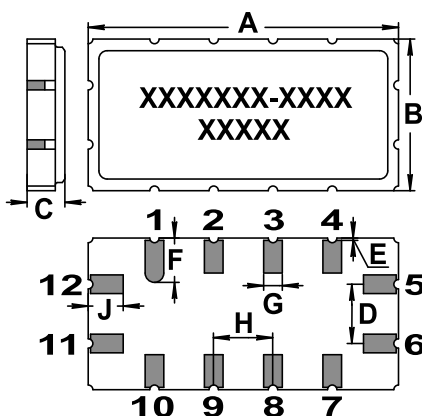
Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	144.99	145	145.01
Insertion loss	dB	-	-	5
Bandwidth at -3 дБ	MHz	0.34	-	-
Bandwidth at -29 дБ	MHz	-	-	1.02
Amplitude ripple	dB	-	-	0.5
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	29	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Quartz 36	-

Notes:

- For information. Order a ЦПАР.433561.124 TY for a complete and updated data.
- Specification valid for measurements in AEC test fixture.

CASE SMP53-1

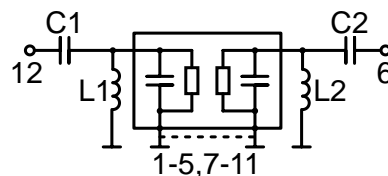
MATCHING



<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	27	L2, nH	39
C1, pF	3-30	C2, pF	3-30

Signal input: 12
Signal output: 6
Ground: other pin

*Matching condition depends on PCB layout.

Recommendations:

- See the relevant ЦПАР 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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