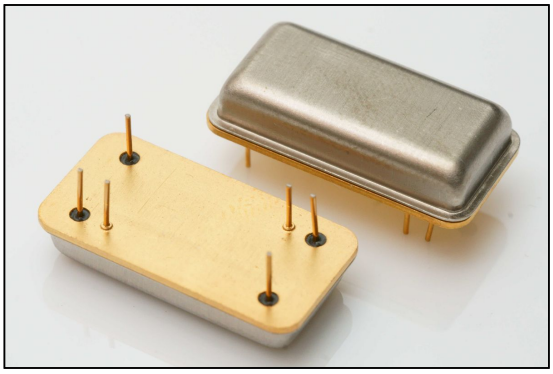


Central frequency - 140 MHz

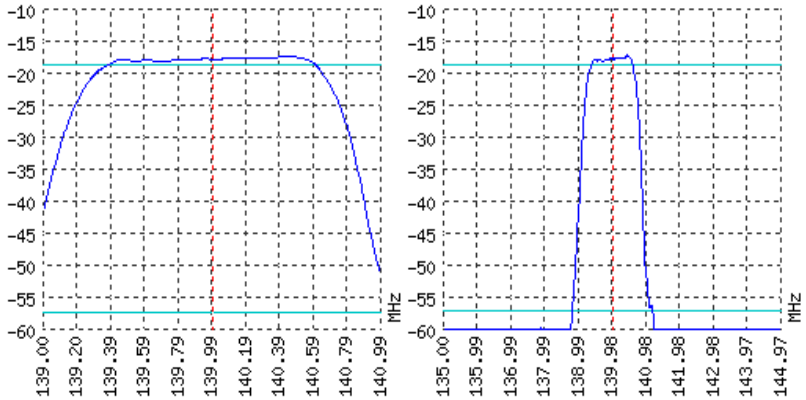
Passband - 1.25 MHz

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



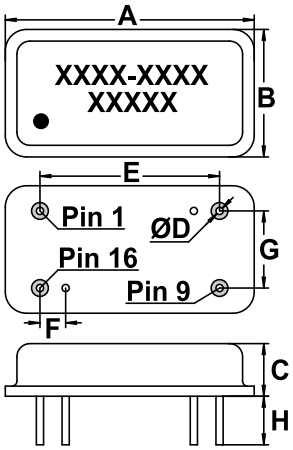
SPECIFICATIONS

Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	139.96	140	140.06
Insertion loss	dB	-	17.2	17.5
Bandwidth at -1.5 дБ	MHz	1.2	1.25	1.28
Bandwidth at -40 дБ	MHz	-	2.2	2.4
Amplitude ripple	dB	-	1	1.5
Group Delay Ripple	ns	-	120	-
Ultimate rejection	dB	-	60	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Quartz 42	-

Notes:

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

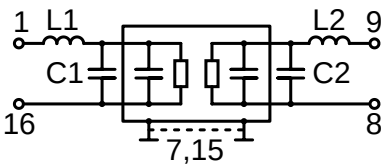
CASE DIP 16



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

DIMENSIONS (mm)	
A	24.6
B	12.6
C	5.2
D	0.45
E	17.78
F	2.54
G	7.62
H	4.8

MATCHING



Input 50 Ом		Output 50 Ом	
L1, nH	68	L2, nH	68
C1, pF	33-39	C2, pF	33-39

Signal input: 1
Ground (input): 16
Signal output: 9
Ground (output): 8
Ground: other pin

*Matching condition depends on PCB layout.

Recommendations:

1. See the relevant ЦПАР for maximum permissable 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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