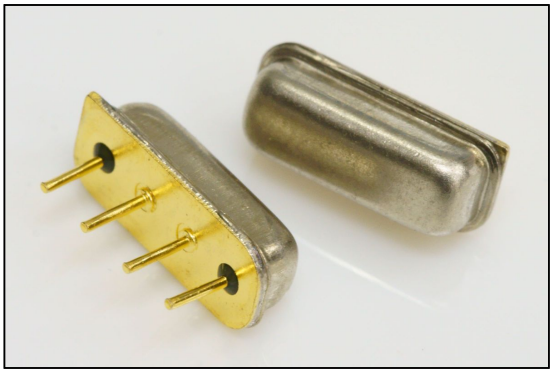


Central frequency - 1300 MHz

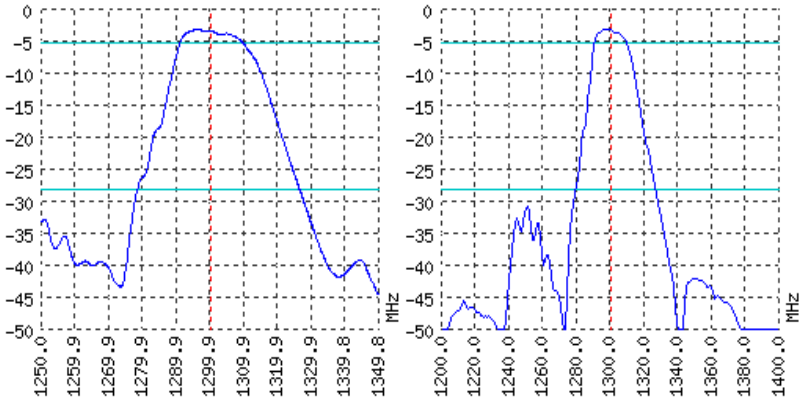
Passband - 19 MHz

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



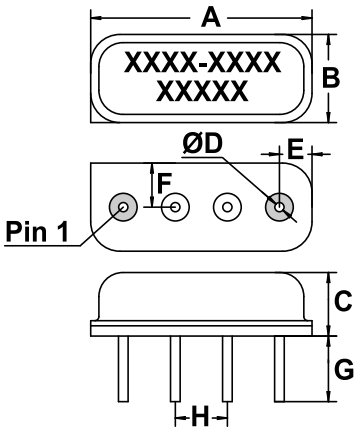
SPECIFICATIONS

Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	1297	1300	1303
Insertion loss	dB	2.8	3.1	4
Bandwidth at -2 дБ	MHz	17.5	19	-
Bandwidth at -25 дБ	MHz	-	46	-
Amplitude ripple	dB	-	0.6	2
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	45	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Lithium tantalate 36	-

Notes:

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

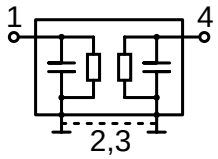
CASE SIP4M



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

DIMENSIONS (mm)	
A	10.8
B	4.3
C	3.3
D	0.45
E	1.59
F	2.15
G	3.2
H	2.54

MATCHING



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

Signal input: 1
Signal output: 4
Ground: other pin

*Matching condition depends on PCB layout.

Recommendations:

1. Maximum permissable input signal power in the bandwidth should be less then 100 mW.
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.

Ltd. AEC Mass production. Acceptance - QCID.
aec@aec-pro.com | tel./fax (812)252-93-70

Ltd. AEC Design Design and production. Military acceptance.
admin@aec-design.com | tel.(812)377-04-26 | fax.(812)364-60-69

198099, Promishlennaya st., 19, St. Petersburg, Russia
http://aec-design.com
http://aec-pro.com