

Central frequency - 100 MHz

Passband - 1.67 MHz

Mass production: Ltd. AEC

Complies with Directive 2002/95/EC (RoHS)





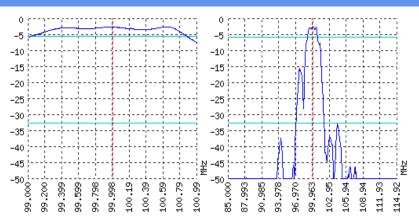




Looking for information on other SAW devices at: http://aec-pro.com/filters.php

Designed by: Ltd. AEC Design

TYPICAL PERFORMANCE



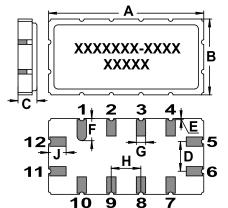
SPECIFICATIONS

Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	99.9	100	100.1
Insertion loss	dB	-	2.6	3
Bandwidth at -3 дБ	MHz	1.4	1.67	-
Bandwidth at -30 дБ	MHz	-	30	-
Amplitude ripple	dB	-	1.5	2
Group Delay Ripple	ns	-	-	-
Ultimate rejection	dB	-	55	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Lithium niobate 128	-

Notes:

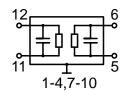
- 1. The design, manufacturing process, and specifications of this filter are subject to change.
- 2. Specification valid for measurements in AEC test fixture.

CASE SMP53-1





DIMENSIONS (mm)				
Α	13.3			
В	6.5			
С	1.62			
D	2.54			
Е	0.1			
F	1.9			
G	0.8			
Н	2.54			
J	1.5			



Input 50 Ом		Output 50 Ом	
L1, nH		L2, nH	
C1, pF		C2, pF	
О., р.		V=, p.	

Signal input: 12 Ground (input): 11 Signal output: 6 Ground: other pin

Ground (output): 5

*Matching condition depends on PCB layout.

Recommendations:

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

MATCHING

- 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
- 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

Design and production SAW filters, resonators, delay lines, sensors.



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