

Central frequency - 193.4 MHz

Passband - 11.8 MHz

Mass production: Ltd. AEC

Complies with Directive 2002/95/EC (RoHS)



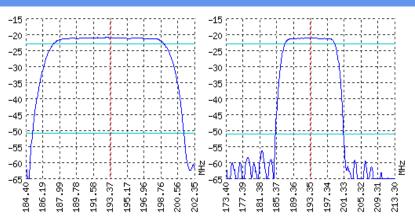




Looking for information on other SAW devices at: http://aec-pro.com/filters.php

Designed by: Ltd. AEC Design

## TYPICAL PERFORMANCE



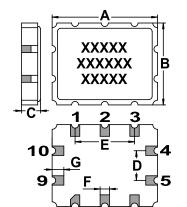
## **SPECIFICATIONS**

Parameter	Unit	Minimum	Typical	Maximum
Central frequency	MHz	193.25	193.4	193.65
Insertion loss	dB	20.6	20.9	21.1
Bandwidth at -2 дБ	MHz	11.6	11.8	11.9
Bandwidth at -30 дБ	MHz	16.1	16.16	16.3
Amplitude ripple	dB	-	0.3	1
Group Delay Ripple	ns	12	16	17
Ultimate rejection	dB	-	50	-
Operating temperature	°C	-55	22	+85
Substrate	-	-	Lithium tantalate 112	-

#### Notes:

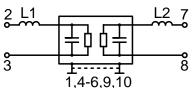
- 1. The design, manufacturing process, and specifications of this filter are subject to change.
- 2. Specification valid for measurements in AEC test fixture.

# CASE QCC 10-1





DIMENSIONS (mm)				
Α	9.1			
В	7.1			
С	1.61			
D	2.54			
E	5.08			
F	0.8			
G	1.2			
Н	0.2			
J	1.1			



Input 50 Ом		Output 50 Ом		
L1, nH	140	L2, nH	39	
C1, pF	-	C2, pF	-	

Signal input: 2 Ground (input): 3 Signal output: 7 Ground (output): 8

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.

**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.
- 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.
- 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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