2.4 GHz Bluetooth and Wi-Fi SAW Filters

for hearing aids and other wearables

Qualcomm

Wearables such as hearing aids typically use 2.4 GHz based Bluetooth® and/or Wi-Fi for connection and data transfer to control units and mobile phones.

Qualcomm Technologies – a leader in SAW filters

Here we present SAW filter highlights for 2.4 GHz based wireless connections. Especially the filters in the extreme small package size 0.9 mm x 0.7 mm are tailor made for wearable applications where each mm² counts.

Product Range

Filters for 2.4 GHz Bluetooth and Wi-Fi

Part Number	Package size [mm x mm]	fstart [MHz]	fc [MHz]	fstop [MHz]	BW [MHz]	IL, typ [dB]	IL, max [dB]	Highlight
B39242B7544L210	0.9 x 0.7	2403.1	2442	2480.9	1.7	1.1-1.4	1.6-2.1	B7/B40/B41 coexistence, very low insertion attenuation
B39242B7530L210	0.9 x 0.7	2403.1	2442	2480.9	7.0	0.6-1.0	1.2-1.9	superior B7/B40/B41 coexistence
B39242B7520P810	1.1 x 0.9	2403.1	2442	2480.9	14.0	0.9-1.4	1.5-2.0	B7/B40/B41 coexistence, very low insertion attenuation
B39242B7509L210	1.1 x 0.9	2403.1	2442	2480.9	2.0	1.1-1.7	1.7-2.5	superior B7/B40/B41 coexistence
B39242B7506P810	1.1 x 0.9	2403.1	2442	2480.9	2.0	1.0-1.4	1.5-1.9	very low insertion attenuation
B39242B7539P810	1.1 x 0.9	2403.1	2437	2470.9	2.0	0.7-1.0	1.1-1.6	band edge filter CH1 to 11
B39242B7511P810	1.1 x 0.9	2402.5	2448	2493.5	2.0	1.0-1.2	1.3-1.8	band edge filter CH1 to 14
B39242B8371P810	1.4 x 1.1	2400	2442	2483.5	26.0	1.6	2.6	B7/B40/B41 coexistence

Technical data subject to change. Filter specification must be taken from the respective product data sheet.

For datasheets see rffe.qualcomm.com

87-27163-1 Rev. A