



RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

## SAW DEVICE SELECTION TABLE

of

Filters and Resonators

for

Remote Keyless Entry Systems  
Tire Pressure Monitoring Systems  
Automotive Telematics Applications  
GPS in Automotive Applications  
Digital Radio Applications

Garage Door Openers  
Wireless Switches & Smart Home Applications  
Smart Grid Applications  
Wireless Audio Applications  
Security and Alarm Systems  
Wireless Access & Tagging Systems  
Medical Applications

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**Narrowband Filter for ISM (high temperature stability)**

Center Frequency MHz	Type	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
169.5	B39171 <b>B3942</b> U310	0.20	1.9	QCC8C	5*5		<a href="#">B3942</a>
313.15 314.00 314.925	B39311 <b>B3534</b> A410	0.20 0.20 0.39	2.6 2.7 2.7	QCC8G	3.8*3.8	Triplexer	<a href="#">B3534</a>
313.15 314.00	B39311 <b>B3535</b> A410	0.20 0.20	2.3 2.3	QCC8G	3.8*3.8	Diplexer	<a href="#">B3535</a>
313.15 314.00	B39311 <b>B3538</b> H110	0.18 0.18	2.6 2.3	DCC6E	3*3	Diplexer	<a href="#">B3538</a>
313.85	B39314 <b>B3931</b> H110	0.76	2.3	DCC6E	3*3	Wide passband	<a href="#">B3931</a>
313.85	B39311 <b>B3738</b> H110	0.36	2.3	DCC6E	3*3		<a href="#">B3738</a>
313.85	B39311 <b>B3768</b> Z810	0.36	1.9	QCC8B	3.8*3.8		<a href="#">B3768</a>
313.15 314.00	B39311 <b>B3955</b> H110	0.18 0.18	2.2 2.2	DCC6E	3*3	Comb filter	<a href="#">B3955</a>
313.85 315.00	B39321 <b>B3787</b> A410	0.76 0.36	2.6 2.7	QCC8G	3.8*3.8	Comb filter	<a href="#">B3787</a>
313.85 315.00	B39321 <b>B3958</b> H110	0.76 0.36	2.6 2.7	DCC6E	3*3	Comb filter	<a href="#">B3958</a>
314.45	B39311 <b>B3950</b> H110	1.10	2.2	DCC6E	3*3		<a href="#">B3950</a>
314.45	B39311 <b>B3784</b> Z810	1.10	1.9	QCC8B	3.8*3.8		<a href="#">B3784</a>
314.90	B39311 <b>B3739</b> H110	0.36	2.3	DCC6E	3*3		<a href="#">B3739</a>
315.00	B39321 <b>B3741</b> H110	0.36	2.1	DCC6E	3*3		<a href="#">B3741</a>
315.00	B39321 <b>B3761</b> Z810	0.36	1.9	QCC8B	3.8*3.8		<a href="#">B3761</a>
315.00	B39321 <b>B3781</b> Z810	0.55	1.7	QCC8B	3.8*3.8		<a href="#">B3781</a>
315.00	B39321 <b>B3783</b> Z810	1.10	1.9	QCC8B	3.8*3.8		<a href="#">B3783</a>
400.00	B39401 <b>B3742</b> H110	0.25	2.3	DCC6E	3*3		<a href="#">B3742</a>
426.08	B39431 <b>B3770</b> Z810	0.15	2.0	QCC8B	3.8*3.8		<a href="#">B3770</a>
433.20 433.92 434.64	B39431 <b>B3532</b> A410	0.18 0.26 0.18	2.8 2.9 2.9	QCC8G	3.8*3.8	Triplexer	<a href="#">B3532</a>
433.20 434.64	B39431 <b>B3537</b> H110	0.18 0.18	2.3 2.3	DCC6E	3*3	Diplexer	<a href="#">B3537</a>
433.20 434.64	B39431 <b>B3533</b> A410	0.18 0.18	2.3 2.4	QCC8G	3.8*3.8	Diplexer	<a href="#">B3533</a>
433.42	B39431 <b>B3735</b> H110	0.36	2.1	DCC6E	3*3		<a href="#">B3735</a>
433.42	B39431 <b>B3791</b> Z810	0.24	3.8	QCC8B	3.8*3.8	external coupling coil, high ultimate rejection	<a href="#">B3791</a>
433.58 434.30	B39431 <b>B3536</b> A410	0.30 0.30	2.5 2.6	QCC8G	3.8*3.8	Diplexer	<a href="#">B3536</a>
433.60	B39431 <b>B3953</b> H110	0.6	2.1	DCC6E	3*3		<a href="#">B3953</a>
433.92	B39431 <b>B3732</b> H110	0.36	2.4	DCC6E	3*3	high selectivity at fc-2 MHz	<a href="#">B3732</a>
433.92	B39431 <b>B3743</b> H110	0.34	1.9	DCC6E	3*3	low insertion attenuation	<a href="#">B3743</a>
433.92	B39431 <b>B3760</b> Z810	0.36	1.9	QCC8B	3.8*3.8		<a href="#">B3760</a>
433.92	B39431 <b>B3774</b> Z810	0.36	2.4	QCC8B	3.8*3.8	high selectivity at fc-2 MHz	<a href="#">B3774</a>
433.92	B39431 <b>B3790</b> Z810	0.12	3.6	QCC8B	3.8*3.8	external coupling coil, high ultimate rejection	<a href="#">B3790</a>
433.92	B39431 <b>B3780</b> Z810	0.55	2.0	QCC8B	3.8*3.8		<a href="#">B3780</a>
433.92	B39431 <b>B3782</b> Z810	1.10	2.2	QCC8B	3.8*3.8	high usable bandwidth	<a href="#">B3782</a>
433.92	B39431 <b>B3951</b> H110	1.10	2.2	DCC6E	3*3		<a href="#">B3951</a>
433.92	B39431 <b>B3933</b> H110	0.12	3.1	DCC6E	3*3	high nearby rejection	<a href="#">B3933</a>
433.92	B39431 <b>B3935</b> H110	1.06	2.2	DCC6E	3*3	high usable bandwidth	<a href="#">B3935</a>
433.92	B39431 <b>B3936</b> H110	0.55	2.2	DCC6E	3*3		<a href="#">B3936</a>
434.17	B39431 <b>B3932</b> H110	0.78	2.4	DCC6E	3*3		<a href="#">B3932</a>
434.42	B39431 <b>B3733</b> H110	0.36	2.1	DCC6E	3*3	high selectivity at fc-2 MHz	<a href="#">B3733</a>
434.42	B39431 <b>B3748</b> H110	0.36	1.9	DCC6E	3*3		<a href="#">B3748</a>
447.725	B39451 <b>B3737</b> H110	0.29	2.2	DCC6E	3*3		<a href="#">B3737</a>

**Narrowband Filter for ISM (high temperature stability)**

Center Frequency MHz	Type	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
868.30	B39871 <b>B3734</b> H110	0.30	3.2	DCC6E	3*3	high RFID rejection	<a href="#">B3734</a>
868.30	B39871 <b>B3744</b> H110	0.60	3.0	DCC6E	3*3		<a href="#">B3744</a>
868.60	B39871 <b>B3948</b> H110	1.20	2.6	DCC6E	3*3	improved LTE suppression	<a href="#">B3948</a>
868.60	B39871 <b>B3746</b> H110	1.20	2.6	DCC6E	3*3		<a href="#">B3746</a>
868.95	B39871 <b>B3941</b> H110	0.50	3.2	DCC6E	3*3		<a href="#">B3941</a>
869.30	B39871 <b>B3749</b> H110	1.40	2.7	DCC6E	3*3		<a href="#">B3749</a>
902.875	B39901 <b>B3934</b> H110	1.55	2.4	DCC6E	3*3		<a href="#">B3934</a>
916.50	B39921 <b>B3300</b> H110	1.2	2.7	DCC6E	3*3		<a href="#">B3300</a>
921.42	B39921 <b>B3949</b> H110	0.3	3.4	DCC6E	3*3	Z-Wave	<a href="#">B3949</a>
924.15	B39921 <b>B3419</b> U410	7.1	2.0	DCC6C	3*3	low IL, low amplitude ripple	<a href="#">B3419</a>
928.35	B39931 <b>B3758</b> H110	0.50	3.6	DCC6E	3*3		<a href="#">B3758</a>

o: obsolete (not for new designs)

For requests of products or frequencies not listed in above table please contact your local Qualcomm sales organization.

## Wideband Filter for ISM

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
313.60	B39311B3917U410		3.3	1.8	DCC6C	3*3	50 Ω	<a href="#">B3917</a>
313.60	B39311B3403H110		3.3	1.5	DCC6E	3*3	50 Ω, pinning 1-4	<a href="#">B3403</a>
313.85	B39311B3713U410		0.60	1.7	DCC6C	3*3	50 Ω	<a href="#">B3713</a>
313.85	B39311B3729H110		1.0	1.5	DCC6E	3*3	50 Ω, pinning 1-4	<a href="#">B3729</a>
314.35	B39311B3714U410		0.60	1.9	DCC6C	3*3	50 Ω	<a href="#">B3714</a>
<b>314.45</b>	<b>in dev.</b>	<b>new</b>	<b>1.3</b>	<b>1.1</b>	<b>QCU8D</b>	<b>1.8*1.4</b>	<b>RKE filter with focus on flyback suppression</b>	
315.00	B39321B3719H110		1.0	1.4	DCC6E	3*3	50 Ω, pinning 1-4	<a href="#">B3719</a>
315.00	B39321B3722U410		1.0	1.5	DCC6C	3*3	50 Ω	<a href="#">B3722</a>
315.00	B39321B3905U510		1.0	1.3	DCC6D	3*3	50 Ω unbal. IN, 200 Ω bal. OUT	<a href="#">B3905</a>
345.00	B39351B3408U410		0.8	2.5	DCC6C	3*3	50 Ω	<a href="#">B3408</a>
428.00	B39431B3411U410		16	2	DCC6C	3*3	50 Ω	<a href="#">B3411</a>
<b>433.9</b>	<b>in dev.</b>	<b>new</b>	<b>1.3</b>	<b>1.1</b>	<b>QCU8D</b>	<b>1.8*1.4</b>	<b>RKE filter with focus on flyback suppression</b>	
433.92	B39431B3710U410		1.7	2.0	DCC6C	3*3	50 Ω	<a href="#">B3710</a>
433.92	B39431B3721U410		1.6	2.6	DCC6C	3*3	50 Ω, high selectivity	<a href="#">B3721</a>
433.92	B39431B3727H110		1.7	2.8	DCC6E	3*3	GNSS filter for L-Band +L1/G1 1525-1606 MHz.	<a href="#">B3727</a>
433.92	B39431B3900U410		0.4	1.2	DCC6C	3*3	50 Ω	<a href="#">B3900</a>
433.92	B39431B3925U410		0.4	1.7	DCC6C	3*3	50 Ω, high nearby rejection	<a href="#">B3925</a>
433.92	B39431B3402H110		0.3	1.7	DCC6E	3*3	50 Ω, pinning 1-4	<a href="#">B3402</a>
447.70	B39451B3907U410		1.6	3.0	DCC6C	3*3	50 Ω	<a href="#">B3907</a>
454.00	B39451B3422U410		2	2.8	DCC6C	3*3	50 Ω	<a href="#">B3422</a>
<b>760.00</b>	<b>B39761B3445U510</b>	<b>new</b>	<b>8.3</b>	<b>2.3</b>	<b>DCC6C</b>	<b>3*3</b>	<b>50 Ω, High out-of-band attenuation, Temperature compensation</b>	<a href="#">B3445</a>
760.00	B39761B3444Z810		8.3	2.0	QCC8B	3.8*3.8	50 Ω, Temperature compensation	<a href="#">B3444</a>
760.00	B39761B3928U510		8.3	3.0	DCC6D	3*3	50 Ω unbal. IN, 100 Ω bal. OUT	<a href="#">B3928</a>
760.00	B39761B3410U510		8.3	1.5	DCC6D	3*3	low IA	<a href="#">B3410</a>
760.00	B39761B3409U410		8.3	1.5	DCC6C	3*3	improved VWR	<a href="#">B3409</a>
760.00	B39761B3929U410		8.3	1.4	DCC6C	3*3	high power durability; low IL	<a href="#">B3929</a>
<b>866.50</b>	<b>B39871B4377P810</b>	<b>new</b>	<b>7.0</b>	<b>2.3</b>	<b>QCS5P</b>	<b>1.4*1.1</b>	<b>improved LSB attenuation, small size</b>	<a href="#">B3477</a>
866.50	B39871B3420U410		7.0	1.8	DCC6C	3*3	high power durability	<a href="#">B3420</a>
866.50	B39871B3717U410		7.0	2.2	DCC6C	3*3	50 Ω	<a href="#">B3717</a>
866.80	B39871B3441U410		3.0	3.4	DCC6C	3*3	50 Ω, high nearby rejection Temperature compensation	<a href="#">B3441</a>
869.00	B39871B2600P810		14	1.6	QCS5P	1.4*1.1	Low-loss RF filter for smart metering	<a href="#">B2600</a>
869.00	B39871B3430U410		10	2.0	DCC6C	3*3	Low-loss RF filter for smart metering	<a href="#">B3430</a>
869.00	B39871B4365P810		2.0	2.5	QCS5P	1.4*1.1	no AEC-Q200, Temperature compensation	<a href="#">B4365</a>
869.00	B39871B3440U410		2.0	2.6	DCC6C	3*3	50 Ω improved LTE suppr. Temperature compensation	<a href="#">B3440</a>
869.00	B39871B3725U410		2.0	2.5	DCC6C	3*3	50 Ω, high nearby rejection	<a href="#">B3725</a>
869.00	B39871B3903U510		2.0	1.4	DCC6D	3*3	50 Ω unbal. IN, 200 Ω bal. OUT	<a href="#">B3903</a>
869.00	B39871B4316P810		2.0	2.0	QCS5P	1.4*1.1	50 Ω, small size	<a href="#">B4316</a>
869.50	B39871B3418U410		13.0	1.7	DCC6C	3*3	50 Ω, pin compatible to B3717	<a href="#">B3418</a>
872.00	B39871B3443U410		8.0	3.0	DCC6C	3*3	50 Ω, extended passband Temperature compensation	<a href="#">B3443</a>
<b>908.5</b>	<b>B3429</b>	<b>new</b>	<b>13</b>	<b>2.0</b>	<b>DCC6C</b>	<b>3*3</b>	<b>steep righ skirt</b>	<a href="#">B3443</a>
912.50	B39911B3406U410		9	2.6	DCC6C	3*3	50 Ω, low amplitude ripple	<a href="#">B3406</a>
<b>915.00</b>	<b>in dev.</b>	<b>new</b>	<b>10</b>	<b>2.2</b>	<b>DCC6C</b>	<b>3*3</b>	<b>steep righ skirt</b>	
915.00	B39921B4301F210		26	1.5	QCS5P	1.4*1.1	50 Ω, small size	<a href="#">B4301</a>
<b>915.00</b>	<b>B3435</b>	<b>new</b>	<b>12</b>	<b>1.6</b>	<b>DCC6D</b>	<b>3*3</b>	<b>low IL, se/bal</b>	
915.00	B39921B4344P810		26	2.8	QCS5P	1.4*1.1	50 Ω, small size	<a href="#">B4344</a>
915.00	B39921B2672P810		26	1.1	QCR5D	1.4*1.1	no AEC-Q200	<a href="#">B2672</a>
915.00	B39921B3726U410		10	2.6	DCC6C	3*3	50 Ω	<a href="#">B3726</a>
915.00	B39921B3728U410		26	2.2	DCC6C	3*3	50 Ω	<a href="#">B3728</a>
915.00	B39921B4317P810		26	1.7	QCS5P	1.4*1.1	50 Ω unbal. IN, 200 Ω bal. OUT	<a href="#">B4317</a>
915.70	B39921B3432U410		5.8	0.6	DCC6C	3*3	50 Ω, low IL 0.9dB max	<a href="#">B3432</a>
916.00	B39921B3718U410		3.5	2.4	DCC6C	3*3	50 Ω	<a href="#">B3718</a>

## Wideband Filter for ISM

Center Frequency MHz	Type	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link	
922.50	B39921 <b>B3407</b> U410		5.0	1.5	DCC6C	3*3	50 Ω	<a href="#">B3407</a>
925.00	<b>B3446</b>		4.0	2.0	DCC6C	3*3	50 Ω, Temperature compensation	<a href="#">B3446</a>
925.00	B39931 <b>B3919</b> U410		3.2	1.4	DCC6C	3*3	50 Ω	<a href="#">B3919</a>
925.15	B39931 <b>B4336</b> P810		5.9	1.7	QCS5P	1.4*1.1	50 Ω	<a href="#">B4336</a>
925.20	B39931 <b>B3926</b> U410		5.8	1.4	DCC6C	3*3	50 Ω	<a href="#">B3926</a>
<b>925.50</b>	<b>B3433</b>	<b>new</b>	<b>5.0</b>	<b>2.2</b>	<b>DCC6C</b>	<b>3*3</b>	<b>50 Ω ?????</b>	
925.80	B39931 <b>B3916</b> U410		4.6	0.6	DCC6C	3*3	50 Ω, low IL 0.9dB max	<a href="#">B3916</a>
925.80	B39931 <b>B3921</b> U410		4.6	1.6	DCC6C	3*3	50 Ω, high electivity	<a href="#">B3921</a>
2441.75	B39242 <b>B4347</b> P810		83.5	1.7	QCS5P	1.4*1.1	50 Ω, WLAN filter with high suppression at SDARS	<a href="#">B4347</a>
2441.75	B39242 <b>B3918</b> U410		83.5	1.9	DCC6C	3*3	50 Ω, WLAN filter with high suppression at SDARS	<a href="#">B3918</a>
2441.75	B39242 <b>B4360</b> P810		83.5	2.1	QCR5N	1.1*0.9	BT 1109	<a href="#">B4360</a>
2442.00	B39242 <b>B4346</b> P810		79	1.9	QCU5D	1.4*1.1	WLAN CSSP Automotive, BAW	<a href="#">B4346</a>
2448.50	B39242 <b>B3912</b> U410		97	1.7	DCC6C	3*3	50 Ω	<a href="#">B3912</a>

o: obsolete (not for new designs)

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## Filter for GNSS

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
1223	B39122B3596U410		54	2.0	DCC6C	3*3	GNSS filter for E5b/L2P 1191-1254 MHz	<a href="#">B3596</a>
<b>1223</b> <b>1582.5</b>	<b>in dev.</b>	<b>new</b>	<b>54</b> <b>47</b>	<b>1.9</b> <b>2.5</b>	<b>DCC6E</b>	<b>3*3</b>	<b>Comb filter</b>	
1278.75	B39132B3428U410		10	1.5	DCC6C	3*3	Low-loss RF filter for GNSS / L6 application	<a href="#">B3428</a>
1542.0	<b>B3421</b>		34.0	1.4	DCC6C	3*3	Precision GNSS filter	<a href="#">B3421</a>
1565.5	<b>B3424</b>		81	2.0	DCC6C	3*3	GNSS filter for L-Band +L1/G1 1525-1606 MHz.	<a href="#">B3424</a>
1575.42	B39162B3400U410		2.0	2.3	DCC6C	3*3	50 Ω, unbal.	<a href="#">B3400</a>
1575.42	B39162B3524B710		6.0	1.4	DCC4A	2.5*2	50 Ω	<a href="#">B3524</a>
1575.42	B39162B3525U510		6.0	2.8	DCC6D	3*3	50 Ω IN, 100 Ω bal. OUT, high selectivity	<a href="#">B3525</a>
1575.42	B39162B3528U510		2.0	1.2	DCC6D	3*3	50 Ω IN, 100 Ω bal. OUT, low IA	<a href="#">B3528</a>
1575.42	B39162B3923U410		6.0	1.3	DCC6C	3*3	50 Ω, unbal., low IA	<a href="#">B3923</a>
1575.42	B39162B4300F210		6.0	1.2	QCS5P	1.4*1.1	50 Ω, small size	<a href="#">B4300</a>
1575.42	B39162B4308P810		2.0	1.3	QCS5P	1.4*1.1	50 Ω IN, 100 Ω bal. OUT, low IA	<a href="#">B4308</a>
1580.50	<b>in dev.</b>		51	1.8	QCU8M	1.8*1.4	Typical group delay ripple below 7ns, L1 band	
1582.35	B39163B3431B710		46.7	1.3-1.6	DCC4A	2.5*2	GPS, Glonass, Galileo and Beidou	<a href="#">B3431</a>
1582.40	B39162B4327P810		46.61	1.4	QCS5P	1.4*1.1	50 Ω, GPS, Glonass, Beidou/Compass	<a href="#">B4327</a>
1582.40	B39162B4353P810		46.61	1.0-1.5	QCS5P	1.4*1.1	50 Ω, GPS, Glonass, Beidou/Compass Top =125C	<a href="#">B4353</a>
1582.47	B39162B4348P810		46.8	0.8	QCS5P	1.4*1.1	T <sub>op</sub> =105C	<a href="#">B4348</a>
1582.50	B39162B3415U410		47	2.0	DCC6C	3*3	very low IA	<a href="#">B3415</a>
1583.00	<b>B3423</b>		46	2.0	DCC6C	3*3	Precision GNSS filter for L1/G1	<a href="#">B3423</a>
1585.50	B39162B3519U410		41	1.9	DCC6C	3*3	50 Ω; GPS, Glonass	<a href="#">B3519</a>
1585.60	B39162B3414U510		40.47	2.1	DCC6D	3*3	GNSS filter for L-Band+L1/G1 1525-1606 MHz.	<a href="#">B3414</a>
1586.00	B39162B3517U510		42	1.9	DCC6D	3*3	50 Ω IN, 100 Ω bal. OUT; GPS, Glonass	<a href="#">B3517</a>
1587.50	B39162B3413U410		57	2.0	DCC6C	3*3	GPS/Galileo/Glonass/Beidou with improved ESD robustness	<a href="#">B3413</a>
1588.00	B39162B3412U410		57	1.8	DCC6C	3*3	with very low GDR	<a href="#">B3412</a>
1588.00	B39162B3913U410		56	2.0	DCC6C	3*3	50 Ω; GPS, Glonass, Galileo	<a href="#">B3913</a>
1588.65	B39162B3401B710		34.47	1.6	DCC4A	2*2.5	GPS Glonass filter	<a href="#">B3401</a>
1588.655	B39162B4310P810		34.47	1.5	QCS5P	1.4*1.1	50 Ω; GPS, Glonass	<a href="#">B4310</a>
1588.655	B39162B4313P810		34.47	1.6	QCS5P	1.4*1.1	50 Ω IN, 100 Ω bal. OUT; GPS, Glonass	<a href="#">B4313</a>

o: obsolete (not for new designs)

For requests of products or frequencies not listed in above table please contact your local Qualcomm sales organization.

## Filter and duplexer for Telematics Communication (se/se)

Band	Duplexer/filter		Center Frequency MHz	Type	Package	Package size mm*mm	Feature	DS link
1	duplexer		1950/2140	B39212B4425P810	QCW9K	2.0*1.6	50 Ω se/50 Ω se; improved isolation	<a href="#">B4425</a>
	(D)Rx filter		2140	B39212B4358P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4358</a>
	(D)Rx filter		2140	B39212B4359P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT High isolation next to skirt on Tx side	<a href="#">B4359</a>
	Tx filter		1950	B39202B4309P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4309</a>
2	duplexer		1880/1960	B39202B4412P810	QCB9R	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4412</a>
	(D)Rx filter		1960	B39202B4366P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4366</a>
	Tx filter		1880	B39192B4315P810	QCS5M	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4315</a>
3	duplexer		1747.5/1842.5	B39182B4421P810	QCR8U	1.8*1.4	50 Ω se/50 Ω se	<a href="#">B4421</a>
	(D)Rx filter		1842.5	B39182B4361P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT, Temperature compensation	<a href="#">B4361</a>
	Tx filter		1747.5	B39172B4331P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4331</a>
4	duplexer		1732.5/2132.5	B39212B4424P810	QCW9S	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4424</a>
	(D)Rx filter		2140	B39212B4358P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4358</a>
	Tx filter		1732.5	B39172B4307F210	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4307</a>
5	duplexer		836.5/881.5	B39881B4422P810	QCU9L	2.0*1.6	50 Ω se antenna IN / 50 Ω Rx se OUT	<a href="#">B4422</a>
	(D)Rx filter		881.5	B39881B4362P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4362</a>
	Tx filter		836.5	B39841B4311P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4311</a>
5/26	(D)Rx filter	new	876.5	in dev.	QCR5N	1.1*0.9	small size	
7	duplexer		2655	B39272B4418P810	QCU9L	2.0*1.6	50 Ω se antenna IN / 50 Ω Rx se OUT	<a href="#">B4418</a>
	(D)Rx filter	new	2655	in dev.	QCR5N	1.1*0.9	small size	
	(D)Rx filter		2655	B39272B4357P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4357</a>
	Tx filter		2535	B39252B4332P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4332</a>
8	duplexer		897.5/942.5	B39941B4410P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4410</a>
	(D)Rx filter	new	942.5	B39941B2606P810	QCR5N	1.1*0.9	small size	<a href="#">B2606</a>
	(D)Rx filter		942.5	B39941B4356P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT; B20 co-design, Temperature compensation	<a href="#">B4356</a>
	(D)Rx filter		942.5	B39941B4363P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4363</a>
	Tx filter		897.5	B39901B4330P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4330</a>
12/17	duplexer		707/737	B39741B4413P810	QCW9K	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4413</a>
	duplexer		707 / 742	B39741B4414P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation; including B13 Rx	<a href="#">B4414</a>
	duplexer		707.5 / 737.5	B39741B4423P810	QCU9L	2.0*1.6	50 Ω se antenna IN / 50 Ω Rx se OUT	<a href="#">B4423</a>
	(D)Rx filter	new	737	in dev.	QCR5N	1.1*0.9	small size	
	(D)Rx filter		737	B39741B4339P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4339</a>
	Tx filter		707	B39711B4337P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4337</a>
13	duplexer		782/751	B39871B4420P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4420</a>
	(D)Rx filter		751	B39741B4345P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4345</a>
	Tx filter		782	B39781B4378P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT, high power durability (29dBm)	<a href="#">B3423</a>
	Tx filter		782	B39781B4319P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4319</a>
12/13/17	(D)Rx filter	new	742.5	in dev.	QCR5N	1.4*1.1	50 Ω se IN / 50 Ω se OUT	
13/14	Tx filter		787.5	B39791B4341P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4341</a>
20	duplexer		847/806	B39851B4428P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4428</a>
	duplexer		847/806	B39851B4409P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4409</a>
	(D)Rx filter		806	B39811B4355P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT; B8 co-design, Temperature compensation	<a href="#">B4355</a>
	(D)Rx filter		806	B39811B4369P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4369</a>
	Tx filter		847	B39851B4320P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4320</a>

## Filter and duplexer for Telematics Communication (se/se)

Band	Duplexer/filter	Center Frequency MHz	Type	Package	Package size mm*mm	Feature	DS link
21	duplexer	1455.4/1503.4	<b>B39152B4429P810</b>	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4429</a>
	(D)Rx filter	1503.4	B39152 <b>B4374</b> P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	
26	(D)Rx filter	876.5	B39871 <b>B4376</b> P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4376</a>
	duplexer	831.5/876.5	B39871 <b>B4430</b> P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4430</a>
28	duplexer lower	718/773	B39771 <b>B4426</b> P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4426</a>
	duplexer upper	733/788	B39791 <b>B4427</b> P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4427</a>
	(D)Rx filter	780.5	B39781 <b>B4373</b> P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT Temperature compensation	<a href="#">B4373</a>
29	<b>(D)Rx filter</b> <b>new</b>	<b>722.5</b>	<b>in dev.</b>	<b>QCR5N</b>	<b>1.1*0.9</b>	<b>small size</b>	
	(D)Rx filter	722.5	B39721 <b>B4370</b> P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4370</a>
30	<b>(D)Rx filter</b> <b>new</b>	<b>2355</b>	<b>in dev.</b>	<b>QCR5N</b>	<b>1.1*0.9</b>	<b>small size</b>	
	(D)Rx filter	2355	B39242 <b>B4371</b> P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4371</a>
32	(D)Rx filter	1474	in dev.	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	
33/39+34	(D)Rx filter	1900 2017.5	B39202 <b>B4384</b> P810	QCS10W	1.5*1.1	2in1; 50 Ω se IN / 50 Ω se OUT;	<a href="#">B4384</a>
38	Tx filter	2595	B39262 <b>B4343</b> P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT; post-PA	<a href="#">B4343</a>
40	(D)Rx filter	2350	B39242 <b>B4352</b> P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4352</a>
	Tx filter	2350	B39242 <b>B4351</b> P810	QCD9P	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4351</a>
41	Rx	2593	B39262 <b>B4349</b> P810	QCD9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4349</a>

## Duplexer se/se for high Rx - Tx out-of-band isolation

Band	Duplexer/filter	Center Frequency	Type	Package	Package size	Feature	
1	duplexer	1950/2140	B39212 <b>B4408</b> P810	QCW9K	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4408</a>
2	duplexer	1880/1960	B39202 <b>B4412</b> P810	QCB9R	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4412</a>
3	duplexer	1747.5/1842.5	B39182 <b>B4411</b> P810	QCW9S	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4411</a>
5	duplexer	1747.5/1842.5	B39182 <b>B4421</b> P810	QCR8U	1.8*1.4	50 Ω se/50 Ω se	<a href="#">B4421</a>
7	duplexer	836.5/881.5	B39881 <b>B4422</b> P810	QCU9L	2.0*1.6	50 Ω se antenna IN / 50 Ω Rx se OUT	<a href="#">B4422</a>
8	duplexer	897.5/942.5	B39941 <b>B4410</b> P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4410</a>
12/17	duplexer	707/742	B39741 <b>B4414</b> P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation; including B13 Rx	<a href="#">B4414</a>
20	duplexer	847/806	B39851 <b>B4409</b> P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4409</a>

## Duplexer for Telematics application

Band	Duplexer/filter	Center Frequency	Type	Package	Package size	Feature	
B1 + B3	duplexer	2140 + 1842.5	in dev.	QCS10W	1.5*1.1	optimized for carrier aggregation	
B2 + B4	duplexer	1960 + 2132.5	B39212 <b>B4385</b> P810	QCS10W	1.5*1.1	optimized for carrier aggregation	<a href="#">B4385</a>
<b>B2/B25 + B66</b>	<b>duplexer</b> <b>new</b>	<b>1962.5 + 2155</b>	<b>in dev.</b>	<b>QCS10W</b>	<b>1.5*1.1</b>	<b>optimized for carrier aggregation</b>	

o: obsolete (not for new designs)

For requests of products or frequencies not listed in above table please contact your local Qualcomm sales organization.



<b>Diplexer, band-stop filter and extractor for GNSS, digital radio and metering</b>
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Center Frequency MHz	Type	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
725.50	B39731 <b>B3473</b> H910			QCC10G	3*2.5	DVB-T band-stop filter LTE 700 Tx and Rx suppression	<a href="#">B3473</a>
725.50	B39731 <b>B3477</b> B510			QCC8F	3*3	LTE 700 Notch	<a href="#">B3477</a>
733.00	B39731 <b>B3476</b> H910			QCC10G	3*2.5	Band-stop filter ISDB-T LTE 700Tx, band 18 and 19 suppression	<a href="#">B3476</a>
861.00	B39731 <b>B3479</b> B510			QCC8F	3*3	Band-stop filter ISDB-T LTE 700Tx, band 18 and 19 suppression	<a href="#">B3479</a>
868.50	B39871 <b>B3448</b> U510			DCC6D	3*3	Telestart-Extractor, Temperature compensation	<a href="#">B3474</a>
924.30	B39921 <b>B3474</b> H910			QCC10G	3*2.5	Notch filter for 920 MHz Japan AMI band	<a href="#">B3448</a>
1575.00 1602.00	B39162 <b>B3518</b> H910	10 10	3.8 3.6	QCC10G	3*2.5	GPS/Glonass Diplexer	<a href="#">B3518</a>
1575.00 1602.00	B39162 <b>B3405</b> H910	11 8.34	3.4 2.2	QCC10G	3*2.5	GPS/Glonass extractor	<a href="#">B3405</a>
1575.00 2326.25	B39232 <b>B3526</b> U510	2.048 12.5	1.8 1.6	DCC6D	3*3	GPS/SDARS Diplexer	<a href="#">B3526</a>
1575.00 2332.50	B39232 <b>B3920</b> U510	6 25	1.2 1.4	DCC6D	3*3	GPS/SDARS Diplexer	<a href="#">B3920</a>
1575.42	B39162 <b>B3470</b> H910			QCC10G	3*2.5	GPS band-stop filter	<a href="#">B3470</a>
1592.21 2332.50	B39232 <b>B3927</b> U510	37.58 25	1.5 1.6	DCC6D	3*3	GPS/Glonass/SDARS Diplexer	<a href="#">B3927</a>
2332.50	B39232 <b>B3471</b> H910			QCC10G	3*2.5	GPS band-stop filter	<a href="#">B3471</a>
1575.42 1601.72	B39162 <b>B4322</b> P810	2 8.34	1.6 1.8	QCU9L	2*1.6	GPS/Glonass extractor GPS/Glonass bal OUT / Non-GPS/Glonass se OUT	<a href="#">B4322</a>
1575.42 1601.72	B39162 <b>B4340</b> P810	20 8.34	2.1 2.4	QCU9L	2*1.6	GPS/Glonass extractor GPS/Glonass se OUT / Non-GPS/Glonass se OUT	<a href="#">B4340</a>

o: obsolete (not for new designs)

For requests of products or frequencies not listed in above table please contact your local Qualcomm sales organization.

**Bandpass filter for Digital Radio**

Center Frequency MHz	Type	Usable Passband MHz	Insertion Attenuation dB	Standard	Package	Package size mm*mm	Feature	DS link
1472	B39152 <b>B1664</b> U410	40	1.6	DMB (DAB), WorldSpace	DCC6C	3.0*3.0		<a href="#">B1664</a>
1472	B39152 <b>B1647</b> U510	40	3.0	DMB (DAB), WorldSpace	DCC6D	3*3	Impedance transformation from single ended 50Ω to balanced 100Ω	<a href="#">B1647</a>
1472	B39152 <b>B4325</b> P810	40	1.5	DMB (DAB), WorldSpace	QCC5M	1.4*1.1	single ended operation at 50Ω	<a href="#">B4325</a>
1472	B39152 <b>B4326</b> P810	40	2.2	DMB (DAB), WorldSpace	QCS5P	1.4*1.1	Impedance transformation from single ended 50Ω to balanced 100Ω	<a href="#">B4326</a>
2332.50	B39232 <b>B3425</b> U510	25	2.4	Sirius / XM Satellite Radio	DCC6D	3*3	Impedance transformation from single ended 50Ω to balanced 100Ω	<a href="#">B3425</a>
2332.50	B39232 <b>B1669</b> U410	25	2.4	Sirius / XM Satellite Radio	DCC6C	3*3	single ended operation at 50Ω	<a href="#">B1669</a>
2332.50	B39232 <b>B3404</b> U410	25	0.6	Sirius / XM Satellite Radio	DCC6C	3*3	very low IL	<a href="#">B3404</a>
2332.50	B39232 <b>B3595</b> U410	25	1.5	Sirius / XM Satellite Radio	DCC6C	3*3	single ended operation at 50Ω	<a href="#">B3595</a>
2332.50	B39232 <b>B3442</b> U410	25	3.0	Sirius / XM Satellite Radio	DCC6C	3*3	Temperature compensation	<a href="#">B3442</a>
2332.50	B39232 <b>B3416</b> U410	25	0.47	Sirius / XM Satellite Radio	DCC6C	3*3	low IA	<a href="#">B3416</a>

o: obsolete (not for new designs)

For requests of products or frequencies not listed in above table please contact your local Qualcomm sales organization.

## Resonator for ISM

Center Frequency MHz	Type	Frequency Tolerance kHz	Frequency Tolerance ppm	Insertion Attenuation dB	Package	Package size mm*mm	DS link
314.875 315.125	B39311R 773U310	±50	±159	1.3	QCC8C	5.0*5.0	<a href="#">R 773</a>
314.90	B39311R 994H110	±25	±79	1.5	DCC6E	3.0*3.0	<a href="#">R 994</a>
315.00	B39321R 901H110	±75	±238	1.5	DCC6E	3.0*3.0	<a href="#">R 901</a>
315.00	B39321R1901A310	±50	±159	1.4	DCC6G	3.0*3.0	<a href="#">R1901</a>
315.00	B39321R1921A310	±25	±79	1.5	DCC6G	3.0*3.0	<a href="#">R1921</a>
315.02	B39321R 993H110	±25	±79	1.5	DCC6E	3.0*3.0	<a href="#">R 993</a>
315.04	B39321R 963H110	±50	±159	1.4	DCC6E	3.0*3.0	<a href="#">R 963</a>
315.05	B39321R1902A310	±50	±159	1.4	DCC6G	3.0*3.0	<a href="#">R1902</a>
315.50	B39321R 903H110	±75	±238	1.5	DCC6E	3.0*3.0	<a href="#">R 903</a>
319.508	B39321R1952A310	±75	±50	1.5	DCC6G	3.0*3.0	<a href="#">R1952</a>
433.81 434.06	B39431R 772U310	±35	±111	1.3	QCC8C	5.0*5.0	<a href="#">R 772</a>
433.92	B39431R 920H110	±75	±173	1.4	DCC6E	3.0*3.0	<a href="#">R 920</a>
433.92	B39431R1900A310	±50	±115	1.4	DCC6G	3.0*3.0	<a href="#">R1900</a>
433.92	B39431R1920A310	±25	±58	1.4	DCC6G	3.0*3.0	<a href="#">R1920</a>
433.94	B39431R 992H110	±25	±58	1.5	DCC6E	3.0*3.0	<a href="#">R 992</a>
433.95	B39431R 962H110	±50	±115	1.4	DCC6E	3.0*3.0	<a href="#">R 962</a>
434.42	B39431R 969H110	±50	±115	1.3	DCC6E	3.0*3.0	<a href="#">R 969</a>
868.35	B39871R1950A310	±150	±173	1.2	DCC6G	3.0*3.0	<a href="#">R1950</a>
915.00	B39921R2906H110	±250	±273	7.2	DCC6E	3.0*3.0	<a href="#">R2906</a>
1176.0	B39122R 959H110	±300	±255	1.3	DCC6E	3.0*3.0	<a href="#">R 959</a>

o: obsolete (not for new designs)

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