



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	B39311 <b>B3534</b> A410	0.20	2.6	QCC8G	3.8*3.8	Triplexer	<a href="#">B3534</a>
314.00		0.20	2.7				
314.925		0.39	2.7				
313.15	B39311 <b>B3535</b> A410	0.20	2.3	QCC8G	3.8*3.8	Diplexer	<a href="#">B3535</a>
314.00		0.20	2.3				
313.15	B39311 <b>B3538</b> H110	0.18	2.6	DCC6E	3*3	Diplexer	<a href="#">B3538</a>
314.00		0.18	2.3				
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	B39311 <b>B3955</b> H110	0.18	2.2	DCC6E	3*3	Comb filter	<a href="#">B3955</a>
314.00		0.18	2.2				
313.85	B39321 <b>B3787</b> A410	0.76	2.6	QCC8G	3.8*3.8	Comb filter	<a href="#">B3787</a>
315.00		0.36	2.7				
313.85	B39321 <b>B3958</b> H110	0.76	2.6	DCC6E	3*3	Comb filter	<a href="#">B3958</a>
315.00		0.36	2.7				
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	B39431 <b>B3532</b> A410	0.18	2.8	QCC8G	3.8*3.8	Triplexer	<a href="#">B3532</a>
433.92		0.26	2.9				
434.64		0.18	2.9				
433.20	B39431 <b>B3537</b> H110	0.18	2.3	DCC6E	3*3	Diplexer	<a href="#">B3537</a>
434.64		0.18	2.3				
433.20	B39431 <b>B3533</b> A410	0.18	2.3	QCC8G	3.8*3.8	Diplexer	<a href="#">B3533</a>
434.64		0.18	2.4				
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	B39431 <b>B3536</b> A410	0.30	2.5	QCC8G	3.8*3.8	Diplexer	<a href="#">B3536</a>
434.30		0.30	2.6				
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>
868.30	B39871 <b>B3734</b> H110	0.30	3.2	DCC6E	3*3	high RFID rejection	<a href="#">B3734</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>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)

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## Wideband Filter for ISM

Center Frequency MHz	Type	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
313.60	B3917	B39311B3917U410		3.3	1.8	DCC6C	3*3	50 Ω	<a href="#">B3917</a>
313.60	B3403	B39311B3403H110		3.3	1.5	DCC6E	3*3	50 Ω, pinning 1-4	<a href="#">B3403</a>
313.85	B3713	B39311B3713U410		0.60	1.7	DCC6C	3*3	50 Ω	<a href="#">B3713</a>
313.85	B3729	B39311B3729H110		1.0	1.5	DCC6E	3*3	50 Ω, pinning 1-4	<a href="#">B3729</a>
314.35	B3714	B39311B3714U410		0.60	1.9	DCC6C	3*3	50 Ω	<a href="#">B3714</a>
314.45	in dev.	in dev.	new	1.3	1.1	QCU8D	1.8*1.4	RKE filter with focus on flyback suppression	
315.00	B3719	B39321B3719H110		1.0	1.4	DCC6E	3*3	50 Ω, pinning 1-4	<a href="#">B3719</a>
315.00	B3722	B39321B3722U410		1.0	1.5	DCC6C	3*3	50 Ω	<a href="#">B3722</a>
315.00	B3905	B39321B3905U510		1.0	1.3	DCC6D	3*3	50 Ω unbal. IN, 200 Ω bal. OUT	<a href="#">B3905</a>
345.00	B3408	B39351B3408U410		0.8	2.5	DCC6C	3*3	50 Ω	<a href="#">B3408</a>
428.00	B3411	B39431B3411U410		16	2	DCC6C	3*3	50 Ω	<a href="#">B3411</a>
433.9		in dev.	new	1.3	1.1	QCU8D	1.8*1.4	RKE filter with focus on flyback suppression	
433.92	B3710	B39431B3710U410		1.7	2.0	DCC6C	3*3	50 Ω	<a href="#">B3710</a>
433.92	B3721	B39431B3721U410		1.6	2.6	DCC6C	3*3	50 Ω, high selectivity	<a href="#">B3721</a>
433.92	B3727	B39431B3727H110		1.7	2.8	DCC6E	3*3	GNSS filter for L-Band +L1/G1 1525-1606 MHz.	<a href="#">B3727</a>
433.92	B3900	B39431B3900U410		0.4	1.2	DCC6C	3*3	50 Ω	<a href="#">B3900</a>
433.92	B3925	B39431B3925U410		0.4	1.7	DCC6C	3*3	50 Ω, high nearby rejection	<a href="#">B3925</a>
433.92	B3402	B39431B3402H110		0.3	1.7	DCC6E	3*3	50 Ω, pinning 1-4	<a href="#">B3402</a>
447.70	B3907	B39451B3907U410		1.6	3.0	DCC6C	3*3	50 Ω	<a href="#">B3907</a>
454.50	in dev.	B39451B3422U410		2	2.8	DCC6C	3*3	50 Ω	<a href="#">B3422</a>
480.00		B39481B3427U410	new special	20	1.7	DCC6C	3*3	Rx codesign with Tx B3426 for duplexing	<a href="#">B3427</a>
505.00		B39511B3426U410	new special	10	1.7	DCC6C	3*3	Tx codesign with Rx B3427 for duplexing	<a href="#">B3426</a>
760.00	B3445	B39761B3445U510	new special	8.3	2.3	DCC6C	3*3	50 Ω, High out-of-band attenuation, Temperature compensation	<a href="#">B3445</a>
760.00	B3444	B39761B3444Z810	special	8.3	2.0	QCC8B	3.8*3.8	50 Ω, Temperature compensation	<a href="#">B3444</a>
760.00	B3928	B39761B3928U510		8.3	3.0	DCC6D	3*3	50 Ω unbal. IN, 100 Ω bal. OUT	<a href="#">B3928</a>
760.00	B3410	B39761B3410U510		8.3	1.5	DCC6D	3*3	low IA	<a href="#">B3410</a>
760.00	B3409	B39761B3409U410		8.3	1.5	DCC6C	3*3	improved VWR	<a href="#">B3409</a>
760.00	B3939	B39761B3929U410		8.3	1.4	DCC6C	3*3	high power durability; low IL	<a href="#">B3929</a>
845.00		B39851B3438U410	new	12	1.4	DCC6C	3*3	high power for smart metering	<a href="#">B3438</a>
866.50	B4377	B39871B4377P810	new	7.0	2.3	QCS5P	1.4*1.1	improved LSB attenuation, small size	<a href="#">B3477</a>
866.50	B3420	B39871B3420U410		7.0	1.8	DCC6C	3*3	high power durability	<a href="#">B3420</a>
866.50	B3717	B39871B3717U410		7.0	2.2	DCC6C	3*3	50 Ω	<a href="#">B3717</a>
866.80	B3441	B39871B3441U410	special	3.0	3.4	DCC6C	3*3	50 Ω, high nearby rejection Temperature compensation	<a href="#">B3441</a>
869.00	B2600	B39871B2600P810		14	1.6	QCS5P	1.4*1.1	Low-loss RF filter for smart metering	<a href="#">B2600</a>
869.00	B3430	B39871B3430U410		10	2.0	DCC6C	3*3	Low-loss RF filter for smart metering	<a href="#">B3430</a>
869.00		B39871B4365P810	special	2.0	2.5	QCS5P	1.4*1.1	no AEC-Q200, Temperature compensation	<a href="#">B4365</a>
869.00	B3440	B39871B3440U410	special	2.0	2.6	DCC6C	3*3	50 Ω improved LTE suppr. Temperature compensation	<a href="#">B3440</a>
869.00	B3725	B39871B3725U410		2.0	2.5	DCC6C	3*3	50 Ω, high nearby rejection	<a href="#">B3725</a>
869.00	B3903	B39871B3903U510		2.0	1.4	DCC6D	3*3	50 Ω unbal. IN, 200 Ω bal. OUT	<a href="#">B3903</a>
869.00	B4316	B39871B4316P810		2.0	2.0	QCS5P	1.4*1.1	50 Ω, small size	<a href="#">B4316</a>
869.50	B3418	B39871B3418U410		13.0	1.7	DCC6C	3*3	50 Ω, pin compatible to B3717	<a href="#">B3418</a>
872.00	B3443	B39871B3443U410	special	8.0	3.0	DCC6C	3*3	50 Ω, extended passband Temp. Comp.	<a href="#">B3443</a>
908.5	B3429	B39911B3429U410	new	13	2.0	DCC6C	3*3	steep righ skirt Rx codesign with B3433 for duplexing	<a href="#">B3429</a>
912.50	B3406	B39911B3406U410		9	2.6	DCC6C	3*3	50 Ω, low amplitude ripple	<a href="#">B3406</a>
915.00	in dev.	in dev.	new	10	2.2	DCC6C	3*3	steep righ skirt	
915.00	B3726	B39921B3726U410		10	2.6	DCC6C	3*3	50 Ω	<a href="#">B3726</a>
915.00	B3435	B39921B3435U410	new	12	1.6	DCC6D	3*3	low IL, se/bal	
915.00		B39921B4379UP810	new	26	1.9	QCR5N	1.1*0.9	small size	<a href="#">B3479</a>
915.00	B4301	B39921B4301F210		26	1.5	QCS5P	1.4*1.1	50 Ω, small size	<a href="#">B4301</a>
915.00	B4344	B39921B4344P810		26	2.8	QCS5P	1.4*1.1	50 Ω, small size	<a href="#">B4344</a>
915.00	B2672	B39921B2672P810		26	1.1	QCR5D	1.4*1.1	no AEC-Q200	<a href="#">B2672</a>
915.00	B3728	B39921B3728U410		26	2.2	DCC6C	3*3	50 Ω	<a href="#">B3728</a>
915.00	B4317	B39921B4317P810		26	1.7	QCS5P	1.4*1.1	50 Ω unbal. IN, 200 Ω bal. OUT	<a href="#">B4317</a>
915.70	B3432	B39921B3432U410		5.8	0.6	DCC6C	3*3	50 Ω, low IL 0.9dB max	<a href="#">B3432</a>
916.00	B3718	B39921B3718U410		3.5	2.4	DCC6C	3*3	50 Ω	<a href="#">B3718</a>

## Wideband Filter for ISM

Center Frequency MHz	Type	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
922.50	B3407	B39921 <b>B3407</b> U410		5.0	1.5	DCC6C	3*3	50 Ω	<a href="#">B3407</a>
925.00	B3446	B39931 <b>B3446</b> U410	special	4.0	2.0	DCC6C	3*3	50 Ω, Temperature compensation	<a href="#">B3446</a>
925.00	B3919	B39931 <b>B3919</b> U410		3.2	1.4	DCC6C	3*3	50 Ω	<a href="#">B3919</a>
925.15	B4336	B39931 <b>B4336</b> P810		5.9	1.7	QCS5P	1.4*1.1	50 Ω	<a href="#">B4336</a>
925.20	B3926	B39931 <b>B3926</b> U410		5.8	1.4	DCC6C	3*3	50 Ω	<a href="#">B3926</a>
925.50	B3433	B39931 <b>B3433</b> U410	new special	5.0	2.2	DCC6C	3*3	50 Ω, Tx codesign with B3429 for Duplexing	<a href="#">B3433</a>
925.80	B3916	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	B3921	B39931 <b>B3921</b> U410		4.6	1.6	DCC6C	3*3	50 Ω, high electivity	<a href="#">B3921</a>
2441.75	B4347	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	B3918	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	B4360	B39242 <b>B4360</b> P810		83.5	2.1	QCR5N	1.1*0.9	BT 1109	<a href="#">B4360</a>
2442.00	B4346	B39242 <b>B4346</b> P810	special	79	1.9	QCU5D	1.4*1.1	WLAN CSSP Automotive, BAW	<a href="#">B4346</a>
2448.50	B3912	B39242 <b>B3912</b> U410		97	1.7	DCC6C	3*3	50 Ω	<a href="#">B3912</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 for GNSS

Center Frequency MHz	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
1176.45	B39122B3452U410	new	20	1.3	DCC6C	3*3	Low-loss RF filter for GPS / L5 application	B3452
1223	B39122B3596U410		54	2.0	DCC6C	3*3	GNSS filter for E5b/L2P 1191-1254 MHz	B3596
1223 1582.5	B3436	new	54 47	1.9 2.5	DCC6E	3*3	Comb filter	B3436
1278.75	B39132B3428U410		10	1.5	DCC6C	3*3	Low-loss RF filter for GNSS / L6 application	B3428
1542.0	B39152B3421U410		34.0	1.4	DCC6C	3*3	Precision GNSS filter	B3421
1565.5	B39232B3424U410		81	2.0	DCC6C	3*3	GNSS filter for L-Band +L1/G1 1525-1606 MHz.	B3424
1575.42	B39162B3400U410		2.0	2.3	DCC6C	3*3	50 Ω, unbal.	B3400
1575.42	B39162B3524B710		6.0	1.4	DCC4A	2.5*2	50 Ω	B3524
1575.42	B39162B3525U510		6.0	2.8	DCC6D	3*3	50 Ω IN, 100 Ω bal. OUT, high selectivity	B3525
1575.42	B39162B3528U510		2.0	1.2	DCC6D	3*3	50 Ω IN, 100 Ω bal. OUT, low IA	B3528
1575.42	B39162B3923U410		6.0	1.3	DCC6C	3*3	50 Ω, unbal., low IA	B3923
1575.42	B39162B4300F210		6.0	1.2	QCS5P	1.4*1.1	50 Ω, small size	B4300
1575.42	B39162B4308P810		2.0	1.3	QCS5P	1.4*1.1	50 Ω IN, 100 Ω bal. OUT, low IA	B4308
1580.50	in dev.		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	B3431
1582.40	B39162B4327P810		46.61	1.4	QCS5P	1.4*1.1	50 Ω, GPS, Glonass, Beidou/Compass	B4327
1582.40	B39162B4353P810		46.61	1.0-1.5	QCS5P	1.4*1.1	50 Ω, GPS, Glonass, Beidou/Compass Top =125C	B4353
1582.47	in dev.	new	46.8	tbd	tbd	1.1*0.9	small size with low IL	
1582.47	B39162B4348P810		46.8	0.8	QCS5P	1.4*1.1	T <sub>op</sub> =105C	B4348
1582.50	B39162B3415U410		47	2.0	DCC6C	3*3	very low IA	B3415
1583.00	B39162B3423U410		46	2.0	DCC6C	3*3	Precision GNSS filter for L1/G1	B3423
1585.50	B39162B3519U410		41	1.9	DCC6C	3*3	50 Ω; GPS, Glonass	B3519
1585.60	B39162B3414U510		40.47	2.1	DCC6D	3*3	GNSS filter for L-Band+L1/G1 1525-1606 MHz.	B3414
1586.00	B39162B3517U510		42	1.9	DCC6D	3*3	50 Ω IN, 100 Ω bal. OUT; GPS, Glonass	B3517
1587.50	B39162B3413U410		57	2.0	DCC6C	3*3	GPS/Galileo/Glonass/Beidou with improved ESD robustness	B3413
1588.00	B39162B3412U410		57	1.8	DCC6C	3*3	with very low GDR	B3412
1588.00	B39162B3913U410		56	2.0	DCC6C	3*3	50 Ω; GPS, Glonass, Galileo	B3913
1588.65	B39162B3401B710		34.47	1.6	DCC4A	2*2.5	GPS Glonass filter	B3401
1588.655	B39162B4310P810		34.47	1.5	QCS5P	1.4*1.1	50 Ω; GPS, Glonass	B4310
1588.655	B39162B4313P810		34.47	1.6	QCS5P	1.4*1.1	50 Ω IN, 100 Ω bal. OUT; GPS, Glonass	B4313

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	Function	Remark	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>
	duplexer	new	1880/1960	B39202B4431P810	QCR8U	1.8*1.4	small size 50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4431</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	new	897.5/942.5	in dev.	QCU9L	2.0*1.6	High out-of-band Rx-Tx isolation	
	duplexer		897.5/942.5	B39941B4410P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se	<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	special	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	special	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	Function	Remark	Center Frequency MHz	Type	Package	Package size mm*mm	Feature	DS link
21	duplexer		1455.4/1503.4	B39152B4429P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4429</a>
	(D)Rx filter		1503.4	B39152B4374P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	
26	(D)Rx filter		876.5	B39871B4376P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4376</a>
	duplexer		831.5/876.5	B39871B4430P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4430</a>
28	duplexer lower		718/773	B39771B4426P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4426</a>
	duplexer upper		733/788	B39791B4427P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	<a href="#">B4427</a>
	(D)Rx filter		780.5	B39781B4373P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT Temperature compensation	<a href="#">B4373</a>
29	(D)Rx filter	new	722.5	in dev.	QCR5N	1.1*0.9	small size	
	(D)Rx filter		722.5	B39721B4370P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4370</a>
30	(D)Rx filter	new	2355	in dev.	QCR5N	1.1*0.9	small size	
	(D)Rx filter		2355	B39242B4371P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4371</a>
32	(D)Rx filter		1474	B39152B4375P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	
33/39+34	(D)Rx filter		1900 2017.5	B39202B4384P810	QCS10W	1.5*1.1	2in1; 50 Ω se IN / 50 Ω se OUT;	<a href="#">B4384</a>
38	Tx filter		2595	B39262B4343P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT; post-PA	<a href="#">B4343</a>
40	(D)Rx filter		2350 2350	B39242B4352P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	<a href="#">B4352</a>
41	Rx		2593	B39262B4349P810	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	Function	Remark	Center Frequency	Type	Package	Package size	Feature	
1	duplexer		1950/2140	B39212B4408P810	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	B39202B4412P810	QCB9R	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	<a href="#">B4412</a>
			1747.5/1842.5					
5	duplexer		1747.5/1842.5	B39182B4421P810	QCR8U	1.8*1.4	50 Ω se/50 Ω se	<a href="#">B4421</a>
7	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>
8	duplexer	new	897.5/942.5	in dev.	QCU9L	2.0*1.6	High out-of-band Rx-Tx isolation	
	duplexer		897.5/942.5	B39941B4410P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se	<a href="#">B4410</a>
12/17	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>
20	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>

**Diplexer for Telematics application**

Band	Function	Remark	Center Frequency	Type	Package	Package size	Feature	
B1 + B3	diplexer		2140 + 1842.5	in dev.	QCS10W	1.5*1.1	optimized for carrier aggregation	
B2 + B4	diplexer		1960 + 2132.5	B39212B4385P810	QCS10W	1.5*1.1	optimized for carrier aggregation	<a href="#">B4385</a>
B25 + B6	diplexer	new	1962.5 + 2155	in dev.	QCS10W	1.5*1.1	optimized for carrier aggregation	

o: obsolete (not for new designs)

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



**Diplexer, band-stop filter and extractor for GNSS, digital radio and metering**

Center Frequency	Type	Remark	Usable Passband	Insertion Attenuation	Package	Package size	Feature	DS link
MHz			MHz	dB		mm*mm		
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>
725.50 733.00	B39731 <b>B3477</b> B510				QCC8F	3*3	LTE 700 Notch	<a href="#">B3477</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	<b>B39232</b> <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	<b>B39232</b> <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	SDARS band-stop filter	<a href="#">B3471</a>
1575.42 1601.72	<b>B39162</b> <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	Remark	Usable Passband MHz	Insertion Attenuation dB	Standard	Package	Package size mm*mm	Feature	DS link
1472	B39152B1664U410		40	1.6	DMB (DAB), WorldSpace	DCC6C	3.0*3.0		<a href="#">B1664</a>
1472	B39152B1647U510		40	3.0	DMB (DAB), WorldSpace	DCC6D	3*3	Impedance transformation from single ended 50Ω to balanced 100Ω	<a href="#">B1647</a>
1472	B39152B4325P810		40	1.5	DMB (DAB), WorldSpace	QCC5M	1.4*1.1	single ended operation at 50Ω	<a href="#">B4325</a>
1472	B39152B4326P810		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	B39232B3425U510		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	B39232B1669U410		25	2.4	Sirius / XM Satellite Radio	DCC6C	3*3	single ended operation at 50Ω	<a href="#">B1669</a>
2332.50	B39232B3404U410		25	0.6	Sirius / XM Satellite Radio	DCC6C	3*3	very low IL	<a href="#">B3404</a>
2332.50	B39232B3595U410		25	1.5	Sirius / XM Satellite Radio	DCC6C	3*3	single ended operation at 50Ω	<a href="#">B3595</a>
2332.50	B39232B3442U410		25	3.0	Sirius / XM Satellite Radio	DCC6C	3*3	Temperature compensation	<a href="#">B3442</a>
2332.50	B39232B3416U410		25	0.47	Sirius / XM Satellite Radio	DCC6C	3*3	low IA	<a href="#">B3416</a>

o: obsolete (not for new designs)

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## Resonator for ISM

Center Frequency MHz	Type	Remark	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	B39321R 1901A310		±50	±159	1.4	DCC6G	3.0*3.0	<a href="#">R1901</a>
315.00	B39321R 1921A310		±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	B39321R 1902A310		±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	B39321R 1952A310		±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	B39431R 1900A310		±50	±115	1.4	DCC6G	3.0*3.0	<a href="#">R1900</a>
433.92	B39431R 1920A310		±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	B39871R 1950A310		±150	±173	1.2	DCC6G	3.0*3.0	<a href="#">R1950</a>
915.00	B39921R 2906H110		±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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