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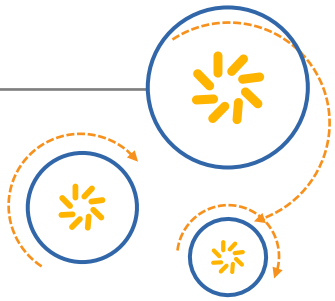

SAW DEVICE SELECTION TABLE

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

SAW AE
March 2019

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**B3942**U310		0.20	1.9	QCC8C	5*5		B3942
313.15 314.00 314.925	B39311**B3534**A410		0.20 0.20 0.39	2.6 2.7 2.7	QCC8G	3.8*3.8	Triplexer	B3534
313.15 314.00	B39311**B3535**A410		0.20 0.20	2.3 2.3	QCC8G	3.8*3.8	Diplexer	B3535
313.15 314.00	B39311**B3538**H110		0.18 0.18	2.6 2.3	DCC6E	3*3	Diplexer	B3538
313.85	B39314**B3931**H110		0.76	2.3	DCC6E	3*3	Wide passband	B3931
313.85	B39311**B3738**H110	o	0.36	2.3	DCC6E	3*3		
313.85	B39311**B3768**Z810		0.36	1.9	QCC8B	3.8*3.8		B3768
313.15 314.00	B39311**B3955**H110	o	0.18 0.18	2.2 2.2	DCC6E	3*3	Comb filter	
313.85 315.00	B39321**B3787**A410		0.76 0.36	2.6 2.7	QCC8G	3.8*3.8	Comb filter	B3787
313.85 315.00	B39321**B3958**H110	o	0.76 0.36	2.6 2.7	DCC6E	3*3	Comb filter	
314.45	B39311**B3950**H110		1.10	2.2	DCC6E	3*3		B3950
314.45	B39311**B3784**Z810		1.10	1.9	QCC8B	3.8*3.8		B3784
314.90	B39311**B3739**H110		0.36	2.3	DCC6E	3*3		B3739
315.00	B39321**B3741**H110		0.36	2.1	DCC6E	3*3		B3741
315.00	B39321**B3761**Z810		0.36	1.9	QCC8B	3.8*3.8		B3761
315.00	B39321**B3781**Z810		0.55	1.7	QCC8B	3.8*3.8		B3781
315.00	B39321**B3783**Z810		1.10	1.9	QCC8B	3.8*3.8		B3783

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
400.00	B39401**B3742**H110		0.25	2.3	DCC6E	3*3		B3742
426.08	B39431**B3770**Z810		0.15	2.0	QCC8B	3.8*3.8		B3770
433.20 433.92 434.64	B39431**B3532**A410		0.18 0.26 0.18	2.8 2.9 2.9	QCC8G	3.8*3.8	Triplexer	B3532
433.20 434.64	B39431**B3537**H110		0.18 0.18	2.3 2.3	DCC6E	3*3	Diplexer	B3537
433.20 434.64	B39431**B3533**A410		0.18 0.18	2.3 2.4	QCC8G	3.8*3.8	Diplexer	B3533
433.42	B39431**B3735**H110		0.36	2.1	DCC6E	3*3		B3735
433.42	B39431**B3791**Z810		0.24	3.8	QCC8B	3.8*3.8	external coupling coil; high ultimate rejection	B3791
433.58 434.30	B39431**B3536**A410		0.30 0.30	2.5 2.6	QCC8G	3.8*3.8	Diplexer	B3536
433.60	B39431**B3953**H110		0.6	2.1	DCC6E	3*3		B3953
433.92	**in dev.**	**new**	**340**	**1.9**	**DCC6H**	**3*3**	**2-5 pinning**	
433.92	B39431**B3732**H110		0.36	2.4	DCC6E	3*3	high selectivity at fc−2 MHz	B3732
433.92	B39431**B3743**H110		0.34	1.9	DCC6E	3*3	low insertion attenuation	B3743
433.92	B39431**B3760**Z810		0.36	1.9	QCC8B	3.8*3.8		B3760
433.92	B39431**B3774**Z810		0.36	2.4	QCC8B	3.8*3.8	high selectivity at fc−2 MHz	B3774
433.92	B39431**B3790**Z810		0.12	3.6	QCC8B	3.8*3.8	external coupling coil; high ultimate rejection	B3790
433.92	B39431**B3780**Z810		0.55	2.0	QCC8B	3.8*3.8		B3780
433.92	B39431**B3782**Z810		1.10	2.2	QCC8B	3.8*3.8	high usable bandwidth	B3782

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
433.92	B39431**B3951**H110		1.10	2.2	DCC6E	3*3		B3951
433.92	B39431**B3933**H110		0.12	3.1	DCC6E	3*3	high nearby rejection	B3933
433.92	B39431**B3935**H110		1.06	2.2	DCC6E	3*3	high usable bandwidth	B3935
433.92	B39431**B3936**H110		0.55	2.2	DCC6E	3*3		B3936
434.17	B39431**B3932**H110		0.78	2.4	DCC6E	3*3		B3932
434.42	B39431**B3733**H110		0.36	2.1	DCC6E	3*3	high selectivity at fc−2 MHz	B3733
434.42	B39431**B3748**H110		0.36	1.9	DCC6E	3*3		B3748
447.725	B39451**B3737**H110	o	0.29	2.2	DCC6E	3*3		
868.30	B39871**B3734**H110		0.30	3.2	DCC6E	3*3	high RFID rejection	B3734
868.30	B39871**B3744**H110		0.60	3.0	DCC6E	3*3		B3744
868.60	B39871**B3948**H110	o	1.20	2.6	DCC6E	3*3	improved LTE suppression	
868.60	B39871**B3746**H110		1.20	2.6	DCC6E	3*3		B3746
868.95	B39871**B3941**H110		0.50	3.2	DCC6E	3*3		B3941
869.30	B39871**B3749**H110		1.40	2.7	DCC6E	3*3		B3749
902.875	B39901**B3934**H110		1.55	2.4	DCC6E	3*3		B3934
916.50	B39921**B3300**H110		1.20	2.7	DCC6E	3*3		B3300
921.42	B39921**B3949**H110		0.30	3.4	DCC6E	3*3	Z-Wave	B3949
924.15	B39921**B3419**U410		7.10	2.0	DCC6C	3*3	low IL; low amplitude ripple	B3419
928.35	B39931**B3758**H110		0.50	3.6	DCC6E	3*3		B3758

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	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
313.60	B39311**B3917**U410	o	3.3	1.8	DCC6C	3*3	50Ω	
313.60	B39311**B3403**H110		3.3	1.5	DCC6E	3*3	50Ω; pinning 1-4	B3403
313.85	B39311**B3713**U410		0.60	1.7	DCC6C	3*3	50Ω	B3713
313.85	B39311**B3729**H110		1.0	1.5	DCC6E	3*3	50Ω; pinning 1-4	B3729
314.35	B39311**B3714**U410		0.60	1.9	DCC6C	3*3	50Ω	B3714
314.45	B39182**B2607**P810	new	1.3	1.1	QCU8D	1.8*1.4	Filter with focus on harmonics suppression and very low IL	B2607
315.00	B39321**B3719**H110		1.0	1.4	DCC6E	3*3	50Ω; pinning 1-4	B3719
315.00	B39321**B3722**U410		1.0	1.5	DCC6C	3*3	50Ω	B3722
315.00	B39321**B3905**U510		1.0	1.3	DCC6D	3*3	50Ω se/200Ω bal	B3905
345.00	B39351**B3408**U410		0.8	2.5	DCC6C	3*3	50Ω	B3408
428.00	B39431**B3411**U410		16.0	2.0	DCC6C	3*3	50Ω	B3411
433.92	B39182**B2608**P810	new	1.3	1.1	QCU8D	1.8*1.4	Filter with focus on harmonics suppression and very low IL	B2608
433.92	B39431**B3710**U410		1.7	2.0	DCC6C	3*3	50Ω	B3710
433.92	B39431**B3721**U410		1.6	2.6	DCC6C	3*3	50Ω; high selectivity	B3721
433.92	B39431**B3727**H110		1.7	2.8	DCC6E	3*3	50 Ω, pinning 1-4, high nearby rejection	B3727
433.92	B39431**B3900**U410		0.4	1.2	DCC6C	3*3	50Ω	B3900
433.92	B39431**B3925**U410		0.4	1.7	DCC6C	3*3	50Ω; high nearby rejection	B3925
433.92	B39431**B3402**H110		0.3	1.7	DCC6E	3*3	50Ω; pinning 1-4	B3402
447.70	B39451**B3907**U410		1.6	3.0	DCC6C	3*3	50Ω	B3907
454.50	B39451**B3422**U410		2.0	2.8	DCC6C	3*3	50Ω	B3422
480.00	B39481**B3427**U410	special	20.0	1.7	DCC6C	3*3	Rx co-design with Tx B3426 for duplexing	B3427
505.00	B39511**B3426**U410	special	10.0	1.7	DCC6C	3*3	Tx co-design with Rx B3427 for duplexing	B3426

Wideband Filter for ISM

Center Frequency MHz	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
760.00	B39761**B3445**U510	special	8.3	2.3	DCC6C	3*3	50Ω; High out-of-band attenuation; Temperature compensation	B3445
760.00	B39761**B3444**Z810	o special	8.3	2.0	QCC8B	3.8*3.8	50Ω; Temperature compensation	
760.00	B39761**B3928**U510		8.3	3.0	DCC6D	3*3	50Ω se/100Ω bal	B3928
760.00	B39761**B3410**U510		8.3	1.5	DCC6D	3*3	low IA	
760.00	B39761**B3409**U410		8.3	1.5	DCC6C	3*3	improved VSWR	
760.00	B39761**B3929**U410		8.3	1.4	DCC6C	3*3	high power durability; low IL	B3929
845.00	B39851**B3438**U410		12.0	1.4	DCC6C	3*3	high power for smart metering	B3438
866.50	B39871**B4377**P810		7.0	2.3	QCS5P	1.4*1.1	improved LSB attenuation; small size	B4377
866.50	B39871**B3420U**410	o	7.0	1.8	DCC6C	3*3	high power durability	
866.50	B39871**B3717**U410		7.0	2.2	DCC6C	3*3	50Ω	B3717
866.80	B39871**B3441**U410	special	2.4	3.4	DCC6C	3*3	50Ω; high nearby rejection Temperature compensation	
869.00	**in dev.**	**special new**	**2.0**	**2.7**	**DCC6C**	**3*3**	**very high attenuation up to 70dB Temperature compensation**	
869.00	B39871**B2600**P810		14.0	1.6	QCS5P	1.4*1.1	Low-loss RF filter for smart metering	B2600
869.00	B39871**B3430**U410		10.0	2.0	DCC6C	3*3	Low-loss RF filter for smart metering	B3430
869.00	B39871**B4365**P810	special	2.0	2.5	QCS5P	1.4*1.1	no AEC-Q200; Temperature compensation	B4365
869.00	B39871**B3440**U410	special	2.0	2.6	DCC6C	3*3	50Ω improved LTE suppr. Temperature compensation	B3440
869.00	B39871**B3725**U410		2.0	2.5	DCC6C	3*3	50Ω; high nearby rejection	B3725
869.00	B39871**B3903**U510		2.0	1.4	DCC6D	3*3	50Ω se/200Ω bal	B3903
869.00	B39871**B4316**P810		2.0	2.0	QCS5P	1.4*1.1	50Ω; small size	B4316
869.00	in dev.		2.0	1.9	QCR5D	1.4*1.1	no AEC-Q200, for indoor application	
869.50	B39871B3418U410	o	13.0	1.7	DCC6C	3*3	50Ω; pin compatible to B3717	
872.00	B39871**B3443**U410	special	8.0	3.0	DCC6C	3*3	50Ω; extended passband Temp. Comp.	B3443

Wideband Filter for ISM

Center Frequency MHz	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
908.5	B39911**B3429**U410		13.0	2.0	DCC6C	3*3	steep righ skirt Rx co-design with B3433 for duplexing	B3429
912.50	B39911**B3406**U410	o	9.0	2.6	DCC6C	3*3	50Ω; low amplitude ripple	
915.00	B39921**B3434**U410	new	10.0	2.2	DCC6C	3*3	steep righ skirt	B3434
915.00	B39921**B3726**U410		10.0	2.6	DCC6C	3*3	50Ω	B3726
915.00	B39921**B3435**U410		12.0	1.6	DCC6D	3*3	low IL; se/bal	B3435
915.00	B39921**B4379**U810		26.0	1.9	QCR5N	1.1*0.9	small size	B4379
915.00	B39921**B4301**F210		26.0	1.5	QCS5P	1.4*1.1	50Ω; small size	B4301
915.00	B39921**B4344**P810		26.0	2.8	QCS5P	1.4*1.1	50Ω; small size	B4344
915.00	B39921**B2672**P810		26.0	1.1	QCS5I	1.4*1.1	no AEC-Q200, for indoor application	B2672
915.00	B39921**B3728**U410		26.0	2.2	DCC6C	3*3	50Ω	B3728
915.00	B39921**B4317**P810		26.0	1.7	QCS5P	1.4*1.1	50Ω se/200Ω bal	B4317
915.00	**B39921B2671P810**	**new**	**26.0**	**1.5**	**QCR5D**	**1.1*0.9**	**no AEC-Q200, for indoor application**	B2671
915.70	B39921**B3432**U410		5.8	0.6	DCC6C	3*3	50Ω; low IL 0.9dB max	B3432
916.00	B39921**B3718**U410		3.5	2.4	DCC6C	3*3	50Ω	B3718
921.50	B39921B2615P810	new	13.0	1.4	QCS5P	1.4*1.1	50Ω	B2615
922.50	B39921B2619P810	new	5.0	1.4	QCS5P	1.4*1.1	50Ω	B2619
922.50	B39921**B3407**U410		5.0	1.5	DCC6C	3*3	50Ω	B3407
924.50	**in dev.**	**new**	**5.0**	**1.8**	**QCS5P**	**1.4*1.1**	**50Ω**	
925.00	B39931**B3446**U410	special	4.0	2.0	DCC6C	3*3	50Ω; Temperature compensation	B3446
925.00	B39931**B3919**U410		3.2	1.4	DCC6C	3*3	50Ω	B3919
925.15	B39931**B4336**P810		5.9	1.7	QCS5P	1.4*1.1	50Ω	B4336
925.20	B39931**B3926**U410		5.8	1.4	DCC6C	3*3	50Ω	B3926
925.50	B39931**B3433**U410	special	5.0	2.2	DCC6C	3*3	50Ω; Tx co-design with B3429 for Duplexing	B3433
925.80	B39931**B3916**U410		4.6	0.6	DCC6C	3*3	50Ω; low IL 0.9dB max	B3916
925.80	B39931**B3921**U410		4.6	1.6	DCC6C	3*3	50Ω; high selectivity	B3921

Wideband Filter for ISM

Center Frequency MHz	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
2441.75	B39242**B4347**P810		83.5	1.7	QCS5P	1.4*1.1	50Ω; Wifi filter with high suppression at SDARS	B4347
2441.75	B39242**B3918**U410		83.5	1.9	DCC6C	3*3	50Ω; Wifi filter with high suppression at SDARS	B3918
2441.75	B39242**B4360**P810		83.5	2.1	QCR5N	1.1*0.9	50Ω	B4360
2442.00	B39242**B4346**P810	special	79.0	1.9	QCU5D	1.4*1.1	50Ω BAW	B4346
2442.00	**B2614**	**new special**	**79.0**	**1.2-1.6**	**QCU5G**	**1.1*0.9**	50Ω BAW	**B2614**
2448.50	B39242**B3912**U410		97.0	1.7	DCC6C	3*3	50Ω	B3912

o: obsolete (not for new designs)

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Filter for GNSS

Start Freq MHz	Stop Freq MHz	Center Frequency MHz	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Application	DS link
1164 1559	**1218 1606**	**1191 1582.5**	**in dev.**	**new**	**54 47**	**1.4 2.4**	**DCC6C**	**3*3**	**GNSS L1+G1/L5+G3 comb filter**	
1196	1250	1223	B39122**B3596**U410		54	2.0	DCC6C	3*3	GNSSE5b/L2/G2	B3596
1196 1559	**1250 1606**	**1223 1582.5**	**B3436**	**new**	**54 47**	**2.0 2.7**	**DCC6C**	**3*3**	**GNSS L1+G1/G3+L2+G2 Comb Filter; Low GDR**	B3436
1166	**1249**	**1207.5**	**in dev.**	**new**	**82.91**	**1.6-1.9**	**QCR5N**	**1.1*0.9**	**GNSS L5/E5/G3/L2/G2**	
1166.45	1186.45	1176.45	B39122**B3452**U410		20	1.3	DCC6C	3*3	GNSS/QZSS L5	B3452
1196 1525	**1249 1606**	**1222.5 1565.5**	**in dev.**	**new**	**53 81**	**2.9 3.2**	**QCS10W**	**1.5*1.1**	**GNSS L+L1+G1/L2+G2 comb filter**	
1197	**1249**	**1223**	**in dev.**	**new**	**52**	**1.1-1.4**	**QCS5P**	**1.4*1.1**	**GNSS G3+L2+G2; Low GDR**	
1197 1559	**1249 1606**	**1223 1582.5**	**in dev.**	**new**	**52 47**	**1.6-2.2 1.4-2.2**	**QCS10W**	**1.5*1.1**	**GNSS L1+G1/G3+L2+G2 diplexer; Low GDR**	
1215	**1254**	**1234.5**	**B39122B3439U410**	**new**	**39**	**1.5**	**DCC6C**	**3*3**	**GNSS L2+G2**	
1273.75	1283.75	1278.75	B39132**B3428**U410		10	1.5	DCC6C	3*3	GNSS QZSS L6	B3428
1525	1559	1542.00	B39152**B3421**U410		34	1.4	DCC6C	3*3	GNSS L	B3421
1525	1606	1565.50	B39232**B3424**U410		81	2.0	DCC6C	3*3	GNSSL/L1/E1/G1/B1; Low GDR; Dashboard	B3424
1559	1616	1588.00	B39162**B3412**U410		57	1.8	DCC6C	3*3	GPS/Galileo/Glonass/BeiDou	B3412
1559	1616	1587.50	B39162**B3413**U410		57	2.0	DCC6C	3*3	GPS/Galileo/Glonass/BeiDou; improved ESD robustness	B3413
1559	1606	1582.50	B39162**B3415**U410		47	2.0	DCC6C	3*3	GPS/Galileo/Glonass/BeiDou; High att. at 1450 to 1525 MHz	B3415
1559	1605.7	1582.35	B39163**B3431**B710		46.7	1.3-1.6	DCC4A	2.5*2	GPS/Galileo/Glonass/BeiDou	B3431
1559.05	1605.89	1582.47	B39162**B2617**P810		46.8	0.8-1.4	QCS5P	1.4*1.1	GPS/Galileo/Glonass/BeiDou; 50Ωse/100Ωbal; Low GDR	B2617
1559.05	1605.89	1582.47	B39162**B2618**P810		46.8	1.4	QCR5N	1.1*0.9	GPS/Galileo/Glonass/BeiDou; Out of Band selec.; post LNA	B2618
1559.05	1605.89	1582.47	B39162**B2611**P810		46.8	0.9	QCR5N	1.1*0.9	GPS/Galileo/Glonass/BeiDou; small size; low IL; pre LNA	B2611
1559.05	1605.66	1582.40	B39162**B4327**P810	o	46.61	1.4	QCS5P	1.4*1.1	GPS/Galileo/Glonass/BeiDou	
1559.05	1605.89	1582.47	B39162**B4348**P810		46.8	0.8	QCS5P	1.4*1.1	GPS/Galileo/Glonass/BeiDou; Top =105C	B4348
1559.05	1605.66	1582.40	B39162**B4353**P810		46.61	1.0-1.5	QCS5P	1.4*1.1	GPS/Galileo/Glonass/BeiDou; Top =125C	B4353
1560	1606	1583.00	B39162**B3423**U410		46	2.0	DCC6C	3*3	GNSSL1/E1/G1/B1; High select.; Low GDR; Dashboard	B3423
1560	1616	1588.00	B39162**B3913**U410		56	2.0	DCC6C	3*3	GPS/Galileo/Glonass/BeiDou	B3913
1565	1607	1586.00	B39162**B3517**U510	o	42	1.9	DCC6D	3*3	GPS/Galileo/Glonass; 50Ωse/100Ωbal	
1565	1606	1585.50	B39162**B3519**U410		41	1.9	DCC6C	3*3	GPS/Galileo/Glonass	B3519
1565.42	1605.89	1585.60	B39162**B3414**U510		40.47	2.1	DCC6D	3*3	GPS/Galileo/Glonass; 50Ωse/100Ωbal; High suppression at 1625 MHz	B3414
1571.42	1605.89	1588.65	B39162**B3401**B710		34.47	1.6	DCC4A	2*2.5	GPS/Galileo/Glonass	B3401
1572.42	1578.42	1575.42	B39162**B3524**B710		6.0	1.4	DCC4A	2.5*2	GPS/Galileo; 50Ωse/50Ωse	B3524
1572.42	1578.42	1575.42	B39162**B3525**U510	o	6.0	2.8	DCC6D	3*3	GPS/Galileo; 50Ωse/100Ωbal; high selectivity; post LNA	
1572.42	1578.42	1575.42	B39162**B3923**U410		6.0	1.3	DCC6C	3*3	GPS/Galileo; low IA; pre LNA	B3923

Filter for GNSS

Start Freq MHz	Stop Freq MHz	Center Frequency MHz	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Application	DS link
1573.42	1605.89	1588.655	B39162**B4310**P810		34.47	1.5	QCS5P	1.4*1.1	GPS/Galileo/Glonass; Low IA; pre LNA	B4310
1573.42	1605.89	1588.655	B39162**B4313**P810		34.47	1.6	QCS5P	1.4*1.1	GPS/Galileo/Glonass; 50Ωse/100Ωbal; high selec.; post LNA	B4313
1573.92	1576.92	1575.42	B39162**B4300**F210		3.0	1.2	QCS5P	1.4*1.1	GPS/Galileo; low IA	B4300
1574.397	1576.44	1575.42	B39162**B3400**U410		2.0	2.3	DCC6C	3*3	GPS/Galileo; High nearby rejection	B3400
1574.42	1576.42	1575.42	B39162**B3528**U510		2.0	1.2	DCC6D	3*3	GPS/Galileo; 50Ωse/100Ωbal; low IA	B3528
1574.42	1576.42	1575.42	B39162**B4308**P810		2.0	1.3	QCS5P	1.4*1.1	GPS/Galileo; 50Ωse/100Ωbal; low IA	B4308

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; 50Ω/50Ω)

Band	Function	Remark	Center Frequency MHz	Type	Package	Package size mm*mm	Feature	DS link
1	Duplexer		1950/2140	B39212**B4425**P810	QCW9K	2.0*1.6	Improved isolation	B4425
	(D)Rx filter		2140	B39212**B4358**P810	QCS5P	1.4*1.1		B4358
	(D)Rx filter		2140	B39212**B4359**P810	QCS5P	1.4*1.1	High isolation next to skirt on Tx side	B4359
	Tx filter		1950	B39202**B4309**P810	QCS5P	1.4*1.1		B4309
2	Duplexer		1880/1960	B39202**B4431**P810	QCR8U	1.8*1.4		B4431
	(D)Rx filter		1960	B39202**B4366**P810	QCS5P	1.4*1.1		B4366
	Tx filter		1880	B39192**B4315**P810	QCS5M	1.4*1.1		B4315
3	Duplexer		1747.5/1842.5	B39182**B4421**P810	QCR8U	1.8*1.4		B4421
	(D)Rx filter	special	1842.5	B39182**B4361**P810	QCS5P	1.4*1.1	Temperature compensation	B4361
	Tx filter		1747.5	B39172**B4331**P810	QCS5P	1.4*1.1		B4331
4	Duplexer		1732.5/2132.5	B39212**B4424**P810	QCW9S	2.0*1.6		B4424
	(D)Rx filter		2140	B39212**B4358**P810	QCS5P	1.4*1.1		B4358
	Tx filter		1732.5	B39172**B4307**F210	QCS5P	1.4*1.1		B4307
5	Duplexer		836.5/881.5	B39881**B4422**P810	QCU9L	2.0*1.6		B4422
	(D)Rx filter		881.5	B39881**B4362**P810	QCS5P	1.4*1.1		B4362
	Tx filter		836.5	B39841**B4311**P810	QCS5P	1.4*1.1		B4311
5/26	(D)Rx filter		876.5	B39781**B2601**P810	QCR5N	1.1*0.9	small size	B2601
7	Duplexer		2655	B39272**B4418**P810	QCU9L	2.0*1.6		B4418
	(D)Rx filter		2655	B39272**B2602**P810	QCR5N	1.1*0.9	small size	B2602
	(D)Rx filter		2655	B39272**B4357**P810	QCS5P	1.4*1.1		B4357
	Tx filter		2535	B39252**B4332**P810	QCS5P	1.4*1.1		B4332
8	Duplexer		897.5/942.5	B39941**B4432**P810	QCU9L	2.0*1.6		B4432
	(D)Rx filter		942.5	B39941**B2606**P810	QCR5N	1.1*0.9	small size	B2606
	(D)Rx filter	special	942.5	B39941**B4356**P810	QCS5P	1.4*1.1	B20 co-design, Temperature compensation	B4356
	(D)Rx filter		942.5	B39941**B4363**P810	QCS5P	1.4*1.1		B4363
	Tx filter		897.5	B39901**B4330**P810	QCS5P	1.4*1.1		B4330
11/21	**(D)Rx filter**	**new**	**1493.4**	**in dev.**	**QCR5N**	**1.1*0.9**		

Filter and Duplexer for Telematics Communication (se/se; 50Ω/50Ω)

Band	Function	Remark	Center Frequency MHz	Type	Package	Package size mm*mm	Feature	DS link
12/17	Duplexer		707/742	B39741**B4414**P810	QCU9L	2.0*1.6	including B13 Rx	B4414
	Duplexer		707.5/737.5	B39741**B4423**P810	QCU9L	2.0*1.6		B4423
	(D)Rx filter		737	B39731**B2609**P810	QCR5N	1.1*0.9	small size	B2609
	(D)Rx filter		737	B39741**B4339**P810	QCS5P	1.4*1.1		B4339
	Tx filter		707	B39711**B4337**P810	QCS5P	1.4*1.1		B4337
13	Duplexer		782/751	B39871**B4420**P810	QCU9L	2.0*1.6		B4420
	(D)Rx filter		751	B39751**B4354**P810	QCS5P	1.4*1.1		B4354
	(D)Rx filter		751	B39751**B2613**P810	QCR5N	1.1*0.9		B2613
	Tx filter		782	B39781**B4378**P810	QCU9L	2.0*1.6	High power durability (29dBm)	B4378
	Tx filter		782	B39781**B4319**P810	QCS5P	1.4*1.1		B4319
12/13/17	(D)Rx filter		742.5	B39741**B2605**P810	QCR5N	1.4*1.1		B2605
13/14	Tx filter		787.5	B39791**B4341**P810	QCS5P	1.4*1.1		B4341
14	Duplexer	new	793	in dev.	QCU8V	1.8*1.4		
	(D)Rx filter	new	763	in dev.	QCR5N	1.1*0.9		
20	Duplexer		847/806	B39851**B4428**P810	QCU9L	2.0*1.6		B4428
	(D)Rx filter	special	806	B39811**B4355**P810	QCS5P	1.4*1.1	B8 co-design, Temperature compensation	B4355
	(D)Rx filter		806	B39811**B4369**P810	QCS5P	1.4*1.1		B4369
	Tx filter		847	B39851**B4320**P810	QCS5P	1.4*1.1		B4320
21	Duplexer		1455.4/1503.4	B39152**B4429**P810	QCU9L	2.0*1.6		B4429
	(D)Rx filter		1503.4	B39152**B4374**P810	QCS5P	1.4*1.1		B4374
26	Duplexer		831.5/876.5	B39871**B4430**P810	QCU9L	2.0*1.6		B4430
	(D)Rx filter		876.5	B39871**B4376**P810	QCS5P	1.4*1.1		B4376
28	Duplexer lower		718/773	B39771**B4426**P810	QCU9L	2.0*1.6		B4426
	Duplexer upper		733/788	B39791**B4427**P810	QCU9L	2.0*1.6		B4427
	(D)Rx filter	special	780.5	B39781**B4373**P810	QCS5P	1.4*1.1	Temperature compensation	B4373
29	(D)Rx filter	new	722.5	B39721**B2603**P810	QCR5N	1.1*0.9	small size	B2603
	(D)Rx filter		722.5	B39721**B4370**P810	QCS5P	1.4*1.1		B4370
30	(D)Rx filter	new	2355	B39242**B2604**P810	QCR5N	1.1*0.9	small size	B2604
	(D)Rx filter		2355	B39242**B4371**P810	QCS5P	1.4*1.1		B4371
32	(D)Rx filter		1474	B39152**B4375**P810	QCS5P	1.4*1.1		B4375

Filter and Duplexer for Telematics Communication (se/se; 50Ω/50Ω)

Band	Function	Remark	Center Frequency MHz	Type	Package	Package size mm*mm	Feature	DS link
33/39+34	(D)Rx filter		1900 2017.5	B39202**B4384**P810	QCS10W	1.5*1.1	2in1	B4384
38	Tx filter		2595	B39262**B4343**P810	QCS5P	1.4*1.1	post-PA	B4343
40	(D)Rx filter		2350 2350	B39242**B4352**P810	QCS5P	1.4*1.1		B4352
41	Rx		2593	B39262**B4349**P810	QCD9L	2.0*1.6		B4349

Duplexer se/se forHigh Rx - Tx out-of-band isolation

Band	Function	Remark	Center Frequency	Type	Package	Package size	Feature	
1	Duplexer		1950/2140	B39212**B4408**P810	QCW9K	2.0*1.6		B4408
2	Duplexer		1880/1960	B39202**B4412**P810	QCB9R	2.0*1.6		B4411
3	Duplexer		1747.5/1842.5	B39182**B4411**P810	QCW9S	2.0*1.6		B4412
5	Duplexer		836.5/881.5	B39881**B4416**P810	QCU9L	2.0*1.6		B4421
7	Duplexer		836.5/881.5	B39272**B4418**P810	QCU9L	2.0*1.6		B4422
8	Duplexer		2535/2655	B39941**B4410**P810	QCU9L	2.0*1.6		B4410
12/17	Duplexer		707/737	B39741**B4413**P810	QCW9K	2.0*1.6		B4413
	Duplexer		707/742	B39741**B4414**P810	QCU9L	2.0*1.6	including B13 Rx	B4414
20	Duplexer		847/806	B39851**B4409**P810	QCU9L	2.0*1.6		B4409

Di-/Triplexer for Telematics application

Band	Function	Remark	Center Frequency	Type	Package	Package size	Feature	
B1+B3+ B21/11	**Triplexer**	**new**	**2140+1842.5+1493.4**	**in dev**	**QCV8A**	**1.8*1.4**		
B1+B3	Diplexer		2140 + 1842.5	B39212**B4386**P810	QCS10W	1.5*1.1	optimized for carrier aggregation	B4386
B2+B4	Diplexer		1960 + 2132.5	B39212**B4385**P810	QCS10W	1.5*1.1	optimized for carrier aggregation	B4385
B2/B25 +B4/B66	Diplexer	new	1962.5 + 2155	B39222**B4387**P810	QCS10W	1.5*1.1	optimized for carrier aggregation	B4387

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 MHz	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
725.50	B39731**B3473**H910				QCC10G	3*2.5	DVB-T band-stop filter; LTE 700 Tx and Rx suppression	B3473
725.50 733.00	B39731**B3477**B510				QCC8F	3*3	LTE 700 Notch	B3477
736.00	B39741**B3481**B510	new			QCC8F	3*3	Band-stop filter for digital TV, band 8, 20, 28 suppression	B3481
753.00	B39751**B3480**B510	new			QCC8F	3*3	Band-stop filter for digital TV, band 8, 20, 28 suppression	B3480
861.00	B39731**B3479**B510				QCC8F	3*3	Band-stop filter ISDB-T; LTE 700Tx, band 18 and 19 suppression	B3479
868.50	B39871**B3448**U510				DCC6D	3*3	Telestart-Extractor; Temperature compensation	B3448
924.30	B39921**B3474**H910				QCC10G	3*2.5	Notch filter for 920 MHz Japan AMI band	B3474
1575.00 1602.00	B39162**B3518**H910		10.00 10.00	3.8 3.6	QCC10G	3*2.5	GPS/Glonass Diplexer	B3518
1575.00 1602.00	B39162**B3405**H910		11.00 8.34	3.4 2.2	QCC10G	3*2.5	GPS/Glonass extractor	B3405
1575.00 1602.00	B39162**B3478**H910	new	26.37 8.34	1.7 2.6	QCC10G	3*2.5	GPS/Glonass/Beidou extractor	B3478
1575.00 1602.00	B39162**B4368**P810	new	26.37 8.34	1.9 2.2	QCU9L	2*1.6	GPS/Glonass/Beidou extractor	B4368
1575.00 2326.25	B39232**B3526**U510		2.048 12.50	1.8 1.6	DCC6D	3*3	GPS/SDARS Diplexer	B3526
1575.00 2332.50	B39232**B3920**U510		6.00 25.00	1.2 1.4	DCC6D	3*3	GPS/SDARS Diplexer	B3920
1575.42	B39162**B3470**H910				QCC10G	3*2.5	GPS band-stop filter	B3470

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

Center Frequency MHz	Type	Remark	Usable Passband MHz	Insertion Attenuation dB	Package	Package size mm*mm	Feature	DS link
1592.21 2332.50	B39232**B3927**U510		37.58 25.00	1.5 1.6	DCC6D	3*3	GPS/Glonass/SDARS Diplexer	B3927
2332.50	B39232**B3471**H910				QCC10G	3*2.5	SDARS band-stop filter	B3471
1575.42 1601.72	B39162**B4322**P810		2.00 8.34	1.6 1.8	QCU9L	2*1.6	GPS/Glonass extractor; GPS/Glonass bal OUT/Non-GPS/Glonass se	B4322
1575.42 1601.72	B39162**B4340**P810		20.00 8.34	2.1 2.4	QCU9L	2*1.6	GPS/Glonass extractor GPS/Glonass se/Non-GPS/Glonass se	B4340
2402.50	B39242**B2610**P810	new special			QCS10W	1.5*1.1	Band-stop filter for SDARS and Wifi	B2610
2436.00	**in dev**	**new special**	**83.5**		**QCS10W**	**1.5*1.1**	**WLAN notch, 125C, Temperature compensation**	

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	B39152**B1664**U410		40	1.6	DMB (DAB), WorldSpace	DCC6C	3.0*3.0	50Ωse/50Ωse	B1664
1472	B39152**B1647**U510		40	3.0	DMB (DAB), WorldSpace	DCC6D	3*3	50Ωse/100Ωbal	B1647
1472	B39152**B4325**P810		40	1.5	DMB (DAB), WorldSpace	QCC5M	1.4*1.1	50Ωse/50Ωse	B4325
1472	B39152**B4326**P810		40	2.2	DMB (DAB), WorldSpace	QCS5P	1.4*1.1	50Ωse/100Ωbal	B4326
2332.50	B39232**B3425**U510		25	2.4	Sirius/XM Satellite Radio	DCC6D	3*3	50Ωse/100Ωbal	B3425
2332.50	B39232**B1669**U410		25	2.4	Sirius/XM Satellite Radio	DCC6C	3*3	50Ωse/50Ωse	B1669
2332.50	B39232**B3404**U410		25	0.6	Sirius/XM Satellite Radio	DCC6C	3*3	50Ωse/50Ωse; very low IL	B3404
2332.50	B39232**B3595**U410		25	1.5	Sirius/XM Satellite Radio	DCC6C	3*3	50Ωse/50Ωse	B3595
2332.50	B39232**B3442**U410	special	25	3.0	Sirius/XM Satellite Radio	DCC6C	3*3	50Ωse/50Ωse; Temperature compensation	B3442
2332.50	B39232**B3416**U410		25	0.47	Sirius/XM Satellite Radio	DCC6C	3*3	50Ωse/50Ωse; low IA	B3416

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	Remark	Frequency Tolerance kHz	Frequency Tolerance ppm	Insertion Attenuation dB	Package	Package size mm*mm	DS link
314.875 315.125	B39311**R 773**U310	o	±50	±159	1.3	QCC8C	5.0*5.0	
314.90	B39311**R 994**H110		±25	±79	1.5	DCC6E	3.0*3.0	R 994
315.00	B39321**R 901**H110		±75	±238	1.5	DCC6E	3.0*3.0	R 901
315.00	B39321**R1901**A310		±50	±159	1.4	DCC6G	3.0*3.0	R1901
315.00	B39321**R1921**A310		±25	±79	1.5	DCC6G	3.0*3.0	R1921
315.02	B39321**R 993**H110		±25	±79	1.5	DCC6E	3.0*3.0	R 993
315.04	B39321**R 963**H110		±50	±159	1.4	DCC6E	3.0*3.0	R 963
315.05	B39321**R1902**A310	o	±50	±159	1.4	DCC6G	3.0*3.0	
315.50	B39321**R 903**H110		±75	±238	1.5	DCC6E	3.0*3.0	R 903
319.508	B39321**R1952**A310		±75	±50	1.5	DCC6G	3.0*3.0	R1952
433.81 434.06	B39431**R 772**U310	o	±35	±111	1.3	QCC8C	5.0*5.0	
433.92	B39431**R 920**H110		±75	±173	1.4	DCC6E	3.0*3.0	R 920
433.92	B39431**R1900**A310	o	±50	±115	1.4	DCC6G	3.0*3.0	
433.92	B39431**R1920**A310		±25	±58	1.4	DCC6G	3.0*3.0	R1920
433.94	B39431**R 992**H110		±25	±58	1.5	DCC6E	3.0*3.0	R 992
433.95	B39431**R 962**H110	o	±50	±115	1.4	DCC6E	3.0*3.0	
434.42	B39431**R 969**H110		±50	±115	1.3	DCC6E	3.0*3.0	R 969
868.35	B39871**R1950**A310		±150	±173	1.2	DCC6G	3.0*3.0	R1950
915.00	B39921**R2906**H110		±250	±273	7.2	DCC6E	3.0*3.0	R2906
1176.00	B39122**R 959**H110		±300	±255	1.3	DCC6E	3.0*3.0	R 959

o: obsolete (not for new designs)

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