



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 B3942 U310	0.20	1.9	QCC8C	5*5		B3942
313.15	B39311 B3534 A410	0.20	2.6	QCC8G	3.8*3.8	Triplexer	B3534
314.00		0.20	2.7				
314.925		0.39	2.7				
313.15	B39311 B3535 A410	0.20	2.3	QCC8G	3.8*3.8	Diplexer	B3535
314.00		0.20	2.3				
313.15	B39311 B3538 H110	0.18	2.6	DCC6E	3*3	Diplexer	B3538
314.00		0.18	2.3				
313.85	B39314 B3931 H110	0.76	2.3	DCC6E	3*3	Wide passband	B3931
313.85	B39311 B3738 H110	0.36	2.3	DCC6E	3*3		B3738
313.85	B39311 B3768 Z810	0.36	1.9	QCC8B	3.8*3.8		B3768
313.15	B39311 B3955 H110	0.18	2.2	DCC6E	3*3	Comb filter	B3955
314.00		0.18	2.2				
313.85	B39321 B3787 A410	0.76	2.6	QCC8G	3.8*3.8	Comb filter	B3787
315.00		0.36	2.7				
313.85	B39321 B3958 H110	0.76	2.6	DCC6E	3*3	Comb filter	B3958
315.00		0.36	2.7				
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
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	B39431 B3532 A410	0.18	2.8	QCC8G	3.8*3.8	Triplexer	B3532
433.92		0.26	2.9				
434.64		0.18	2.9				
433.20	B39431 B3537 H110	0.18	2.3	DCC6E	3*3	Diplexer	B3537
434.64		0.18	2.3				
433.20	B39431 B3533 A410	0.18	2.3	QCC8G	3.8*3.8	Diplexer	B3533
434.64		0.18	2.4				
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	B39431 B3536 A410	0.30	2.5	QCC8G	3.8*3.8	Diplexer	B3536
434.30		0.30	2.6				
433.60	B39431 B3953 H110	0.6	2.1	DCC6E	3*3		B3953
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
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	0.29	2.2	DCC6E	3*3		B3737
868.30	B39871 B3734 H110	0.30	3.2	DCC6E	3*3	high RFID rejection	B3734

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 B3744 H110	0.60	3.0	DCC6E	3*3		B3744
868.60	B39871 B3948 H110	1.20	2.6	DCC6E	3*3	improved LTE suppression	B3948
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	1.2	2.7	DCC6E	3*3		B3300
921.42	B39921 B3949 H110	0.3	3.4	DCC6E	3*3	Z-Wave	B3949
924.15	B39921 B3419 U410	7.1	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	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	B3917
313.60	B3403	B39311B3403H110		3.3	1.5	DCC6E	3*3	50 Ω, pinning 1-4	B3403
313.85	B3713	B39311B3713U410		0.60	1.7	DCC6C	3*3	50 Ω	B3713
313.85	B3729	B39311B3729H110		1.0	1.5	DCC6E	3*3	50 Ω, pinning 1-4	B3729
314.35	B3714	B39311B3714U410		0.60	1.9	DCC6C	3*3	50 Ω	B3714
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	B3719
315.00	B3722	B39321B3722U410		1.0	1.5	DCC6C	3*3	50 Ω	B3722
315.00	B3905	B39321B3905U510		1.0	1.3	DCC6D	3*3	50 Ω unbal. IN, 200 Ω bal. OUT	B3905
345.00	B3408	B39351B3408U410		0.8	2.5	DCC6C	3*3	50 Ω	B3408
428.00	B3411	B39431B3411U410		16	2	DCC6C	3*3	50 Ω	B3411
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	B3710
433.92	B3721	B39431B3721U410		1.6	2.6	DCC6C	3*3	50 Ω, high selectivity	B3721
433.92	B3727	B39431B3727H110		1.7	2.8	DCC6E	3*3	GNSS filter for L-Band +L1/G1 1525-1606 MHz.	B3727
433.92	B3900	B39431B3900U410		0.4	1.2	DCC6C	3*3	50 Ω	B3900
433.92	B3925	B39431B3925U410		0.4	1.7	DCC6C	3*3	50 Ω, high nearby rejection	B3925
433.92	B3402	B39431B3402H110		0.3	1.7	DCC6E	3*3	50 Ω, pinning 1-4	B3402
447.70	B3907	B39451B3907U410		1.6	3.0	DCC6C	3*3	50 Ω	B3907
454.50	in dev.	B39451B3422U410		2	2.8	DCC6C	3*3	50 Ω	B3422
480.00		B39481B3427U410	new special	20	1.7	DCC6C	3*3	Rx codesign with Tx B3426 for duplexing	B3427
505.00		B39511B3426U410	new special	10	1.7	DCC6C	3*3	Tx codesign with Rx B3427 for duplexing	B3426
760.00	B3445	B39761B3445U510	new special	8.3	2.3	DCC6C	3*3	50 Ω, High out-of-band attenuation, Temperature compensation	B3445
760.00	B3444	B39761B3444Z810	special	8.3	2.0	QCC8B	3.8*3.8	50 Ω, Temperature compensation	B3444
760.00	B3928	B39761B3928U510		8.3	3.0	DCC6D	3*3	50 Ω unbal. IN, 100 Ω bal. OUT	B3928
760.00	B3410	B39761B3410U510		8.3	1.5	DCC6D	3*3	low IA	B3410
760.00	B3409	B39761B3409U410		8.3	1.5	DCC6C	3*3	improved VWR	B3409
760.00	B3939	B39761B3929U410		8.3	1.4	DCC6C	3*3	high power durability; low IL	B3929
845.00		B39851B3438U410	new	12	1.4	DCC6C	3*3	high power for smart metering	B3438
866.50	B4377	B39871B4377P810	new	7.0	2.3	QCS5P	1.4*1.1	improved LSB attenuation, small size	B3477
866.50	B3420	B39871B3420U410		7.0	1.8	DCC6C	3*3	high power durability	B3420
866.50	B3717	B39871B3717U410		7.0	2.2	DCC6C	3*3	50 Ω	B3717
866.80	B3441	B39871B3441U410	special	3.0	3.4	DCC6C	3*3	50 Ω, high nearby rejection Temperature compensation	B3441
869.00	B2600	B39871B2600P810		14	1.6	QCS5P	1.4*1.1	Low-loss RF filter for smart metering	B2600
869.00	B3430	B39871B3430U410		10	2.0	DCC6C	3*3	Low-loss RF filter for smart metering	B3430
869.00		B39871B4365P810	special	2.0	2.5	QCS5P	1.4*1.1	no AEC-Q200, Temperature compensation	B4365
869.00	B3440	B39871B3440U410	special	2.0	2.6	DCC6C	3*3	50 Ω improved LTE suppr. Temperature compensation	B3440
869.00	B3725	B39871B3725U410		2.0	2.5	DCC6C	3*3	50 Ω, high nearby rejection	B3725
869.00	B3903	B39871B3903U510		2.0	1.4	DCC6D	3*3	50 Ω unbal. IN, 200 Ω bal. OUT	B3903
869.00	B4316	B39871B4316P810		2.0	2.0	QCS5P	1.4*1.1	50 Ω, small size	B4316
869.50	B3418	B39871B3418U410		13.0	1.7	DCC6C	3*3	50 Ω, pin compatible to B3717	B3418
872.00	B3443	B39871B3443U410	special	8.0	3.0	DCC6C	3*3	50 Ω, extended passband Temp. Comp.	B3443
908.5	B3429	B39911B3429U410	new	13	2.0	DCC6C	3*3	steep righ skirt Rx codesign with B3433 for duplexing	B3429
912.50	B3406	B39911B3406U410		9	2.6	DCC6C	3*3	50 Ω, low amplitude ripple	B3406
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	B3726
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	B3479
915.00	B4301	B39921B4301F210		26	1.5	QCS5P	1.4*1.1	50 Ω, small size	B4301
915.00	B4344	B39921B4344P810		26	2.8	QCS5P	1.4*1.1	50 Ω, small size	B4344
915.00	B2672	B39921B2672P810		26	1.1	QCR5D	1.4*1.1	no AEC-Q200	B2672
915.00	B3728	B39921B3728U410		26	2.2	DCC6C	3*3	50 Ω	B3728
915.00	B4317	B39921B4317P810		26	1.7	QCS5P	1.4*1.1	50 Ω unbal. IN, 200 Ω bal. OUT	B4317
915.70	B3432	B39921B3432U410		5.8	0.6	DCC6C	3*3	50 Ω, low IL 0.9dB max	B3432
916.00	B3718	B39921B3718U410		3.5	2.4	DCC6C	3*3	50 Ω	B3718

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 B3407 U410		5.0	1.5	DCC6C	3*3	50 Ω	B3407
925.00	B3446	B39931 B3446 U410	special	4.0	2.0	DCC6C	3*3	50 Ω, Temperature compensation	B3446
925.00	B3919	B39931 B3919 U410		3.2	1.4	DCC6C	3*3	50 Ω	B3919
925.15	B4336	B39931 B4336 P810		5.9	1.7	QCS5P	1.4*1.1	50 Ω	B4336
925.20	B3926	B39931 B3926 U410		5.8	1.4	DCC6C	3*3	50 Ω	B3926
925.50	B3433	B39931 B3433 U410	new special	5.0	2.2	DCC6C	3*3	50 Ω, Tx codesign with B3429 for Duplexing	B3433
925.80	B3916	B39931 B3916 U410		4.6	0.6	DCC6C	3*3	50 Ω, low IL 0.9dB max	B3916
925.80	B3921	B39931 B3921 U410		4.6	1.6	DCC6C	3*3	50 Ω, high electivity	B3921
2441.75	B4347	B39242 B4347 P810		83.5	1.7	QCS5P	1.4*1.1	50 Ω, WLAN filter with high suppression at SDARS	B4347
2441.75	B3918	B39242 B3918 U410		83.5	1.9	DCC6C	3*3	50 Ω, WLAN filter with high suppression at SDARS	B3918
2441.75	B4360	B39242 B4360 P810		83.5	2.1	QCR5N	1.1*0.9	BT 1109	B4360
2442.00	B4346	B39242 B4346 P810	special	79	1.9	QCU5D	1.4*1.1	WLAN CSSP Automotive, BAW	B4346
2448.50	B3912	B39242 B3912 U410		97	1.7	DCC6C	3*3	50 Ω	B3912

o: obsolete (not for new designs)

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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 _{op} =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)

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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	B4425
	(D)Rx filter		2140	B39212B4358P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4358
	(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	B4359
	Tx filter		1950	B39202B4309P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4309
2	duplexer		1880/1960	B39202B4412P810	QCB9R	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	B4412
	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	B4431
	(D)Rx filter		1960	B39202B4366P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4366
	Tx filter		1880	B39192B4315P810	QCS5M	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4315
3	duplexer		1747.5/1842.5	B39182B4421P810	QCR8U	1.8*1.4	50 Ω se/50 Ω se	B4421
	(D)Rx filter		1842.5	B39182B4361P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT, Temperature compensation	B4361
	Tx filter		1747.5	B39172B4331P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4331
4	duplexer		1732.5/2132.5	B39212B4424P810	QCW9S	2.0*1.6	50 Ω se IN / 50 Ω se OUT	B4424
	(D)Rx filter		2140	B39212B4358P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4358
	Tx filter		1732.5	B39172B4307F210	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4307
5	duplexer		836.5/881.5	B39881B4422P810	QCU9L	2.0*1.6	50 Ω se antenna IN / 50 Ω Rx se OUT	B4422
	(D)Rx filter		881.5	B39881B4362P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4362
	Tx filter		836.5	B39841B4311P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4311
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	B4418
	(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	B4357
	Tx filter		2535	B39252B4332P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4332
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	B4410
	(D)Rx filter	new	942.5	B39941B2606P810	QCR5N	1.1*0.9	small size	B2606
	(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	B4356
	(D)Rx filter		942.5	B39941B4363P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4363
	Tx filter		897.5	B39901B4330P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4330
12/17	duplexer		707/737	B39741B4413P810	QCW9K	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	B4413
	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	B4414
	duplexer		707.5 / 737.5	B39741B4423P810	QCU9L	2.0*1.6	50 Ω se antenna IN / 50 Ω Rx se OUT	B4423
	(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	B4339
	Tx filter		707	B39711B4337P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4337
13	duplexer		782/751	B39871B4420P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	B4420
	(D)Rx filter		751	B39741B4345P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4345
	Tx filter		782	B39781B4378P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT, high power durability (29dBm)	B3423
	Tx filter		782	B39781B4319P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4319
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	B4341
20	duplexer		847/806	B39851B4428P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	B4428
	duplexer		847/806	B39851B4409P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	B4409
	(D)Rx filter	special	806	B39811B4355P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT; B8 co-design, Temperature compensation	B4355
	(D)Rx filter		806	B39811B4369P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4369
	Tx filter		847	B39851B4320P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4320

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	B4429
	(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	B4376
	duplexer		831.5/876.5	B39871B4430P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	B4430
28	duplexer lower		718/773	B39771B4426P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	B4426
	duplexer upper		733/788	B39791B4427P810	QCU9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	B4427
	(D)Rx filter		780.5	B39781B4373P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT Temperature compensation	B4373
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	B4370
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	B4371
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;	B4384
38	Tx filter		2595	B39262B4343P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT; post-PA	B4343
40	(D)Rx filter		2350 2350	B39242B4352P810	QCS5P	1.4*1.1	50 Ω se IN / 50 Ω se OUT	B4352
41	Rx		2593	B39262B4349P810	QCD9L	2.0*1.6	50 Ω se IN / 50 Ω se OUT	B4349

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	B4408
2	duplexer		1880/1960	B39202B4412P810	QCB9R	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	B4412
			1747.5/1842.5	B39182B4421P810	QCR8U	1.8*1.4	50 Ω se/50 Ω se	B4421
7	duplexer		836.5/881.5	B39881B4422P810	QCU9L	2.0*1.6	50 Ω se antenna IN / 50 Ω Rx se OUT	B4422
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	B4410
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	B4414
20	duplexer		847/806	B39851B4409P810	QCU9L	2.0*1.6	50 Ω se/50 Ω se; High out-of-band Rx-Tx isolation	B4409

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	B4385
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 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
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	B3474
924.30	B39921 B3474 H910				QCC10G	3*2.5	Notch filter for 920 MHz Japan AMI band	B3448
1575.00 1602.00	B39162 B3518 H910		10 10	3.8 3.6	QCC10G	3*2.5	GPS/Glonass Diplexer	B3518
1575.00 1602.00	B39162 B3405 H910		11 8.34	3.4 2.2	QCC10G	3*2.5	GPS/Glonass extractor	B3405
1575.00 2326.25	B39232 B3526 U510		2.048 12.5	1.8 1.6	DCC6D	3*3	GPS/SDARS Diplexer	B3526
1575.00 2332.50	B39232 B3920 U510		6 25	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
1592.21 2332.50	B39232 B3927 U510		37.58 25	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 8.34	1.6 1.8	QCU9L	2*1.6	GPS/Glonass extractor GPS/Glonass bal OUT / Non-GPS/Glonass se OUT	B4322
1575.42 1601.72	B39162 B4340 P810		20 8.34	2.1 2.4	QCU9L	2*1.6	GPS/Glonass extractor GPS/Glonass se OUT / Non-GPS/Glonass se OUT	B4340

o: obsolete (not for new designs)

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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		B1664
1472	B39152B1647U510		40	3.0	DMB (DAB), WorldSpace	DCC6D	3*3	Impedance transformation from single ended 50Ω to balanced 100Ω	B1647
1472	B39152B4325P810		40	1.5	DMB (DAB), WorldSpace	QCC5M	1.4*1.1	single ended operation at 50Ω	B4325
1472	B39152B4326P810		40	2.2	DMB (DAB), WorldSpace	QCS5P	1.4*1.1	Impedance transformation from single ended 50Ω to balanced 100Ω	B4326
2332.50	B39232B3425U510		25	2.4	Sirius / XM Satellite Radio	DCC6D	3*3	Impedance transformation from single ended 50Ω to balanced 100Ω	B3425
2332.50	B39232B1669U410		25	2.4	Sirius / XM Satellite Radio	DCC6C	3*3	single ended operation at 50Ω	B1669
2332.50	B39232B3404U410		25	0.6	Sirius / XM Satellite Radio	DCC6C	3*3	very low IL	B3404
2332.50	B39232B3595U410		25	1.5	Sirius / XM Satellite Radio	DCC6C	3*3	single ended operation at 50Ω	B3595
2332.50	B39232B3442U410		25	3.0	Sirius / XM Satellite Radio	DCC6C	3*3	Temperature compensation	B3442
2332.50	B39232B3416U410		25	0.47	Sirius / XM Satellite Radio	DCC6C	3*3	low IA	B3416

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	R 773
314.90	B39311R 994H110		±25	±79	1.5	DCC6E	3.0*3.0	R 994
315.00	B39321R 901H110		±75	±238	1.5	DCC6E	3.0*3.0	R 901
315.00	B39321R1901A310		±50	±159	1.4	DCC6G	3.0*3.0	R1901
315.00	B39321R1921A310		±25	±79	1.5	DCC6G	3.0*3.0	R1921
315.02	B39321R 993H110		±25	±79	1.5	DCC6E	3.0*3.0	R 993
315.04	B39321R 963H110		±50	±159	1.4	DCC6E	3.0*3.0	R 963
315.05	B39321R1902A310		±50	±159	1.4	DCC6G	3.0*3.0	R1902
315.50	B39321R 903H110		±75	±238	1.5	DCC6E	3.0*3.0	R 903
319.508	B39321R1952A310		±75	±50	1.5	DCC6G	3.0*3.0	R1952
433.81 434.06	B39431R 772U310		±35	±111	1.3	QCC8C	5.0*5.0	R 772
433.92	B39431R 920H110		±75	±173	1.4	DCC6E	3.0*3.0	R 920
433.92	B39431R1900A310		±50	±115	1.4	DCC6G	3.0*3.0	R1900
433.92	B39431R1920A310		±25	±58	1.4	DCC6G	3.0*3.0	R1920
433.94	B39431R 992H110		±25	±58	1.5	DCC6E	3.0*3.0	R 992
433.95	B39431R 962H110		±50	±115	1.4	DCC6E	3.0*3.0	R 962
434.42	B39431R 969H110		±50	±115	1.3	DCC6E	3.0*3.0	R 969
868.35	B39871R1950A310		±150	±173	1.2	DCC6G	3.0*3.0	R1950
915.00	B39921R2906H110		±250	±273	7.2	DCC6E	3.0*3.0	R2906
1176.0	B39122R 959H110		±300	±255	1.3	DCC6E	3.0*3.0	R 959

o: obsolete (not for new designs)

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