Qualcomm

RF360 Europe GmbH

SAW DEVICE SELECTION TABLE

for

Industrial Electronics

(including Infrastructure Systems, IoT and Multimedia)

IE PM
April 2023

Basestation RF Filters

Center Frequency MHz	Type		Usable Passband MHz	Bandwidth 20dB MHz	Insertion Attenuation dB	Band Rej. Rejection dB	Package	Size mm²	Application
412.50	B5617	i	5.00	13.00	1.4	35	DCC6C	3.0x3.0	Band 87 UL
453.00	B5640	i	6.00	10.00	1.8	30	DCC6C	3.0x3.0	Band 72+73 UL
455.00	B5336	i	5.00	10.00	1.6	44	DCC6C	3.0x3.0	Band 31 UL
634.50	B5601	i	35.00	70.00	3.1	35	DCC6C	3.0x3.0	Band 71 DL
634.50	**B5384**	**i**	35.00	70.00	3.0	35	DCC6C	3.0x3.0	Band 71 DL
680.50	B5378	i	35.00	50.00	2.2	30	DCC6C	3.0x3.0	Band 71 UL
689.00	B5603	i	52.00	90.00	3.2	30	DCC6C	3.0x3.0	Band 12+71 UL
689.50	B5627	i	53.00	90.00	3.0	25	DCC6C	3.0x3.0	Band 12+71 UL
707.00	B5107	i	18.00	34.00	1.6	40	DCC6C	3.0x3.0	Band 12 UL
722.50	B5347	i	11.00	25.00	1.8	45	DCC6C	3.0x3.0	Band 29 DL
736.50	B5605	i	17.00	32.00	2.2	40	DCC6C	3.0x3.0	Band 12 DL
743.00	B5632	i	52.00	100.00	3.1	35	DCC6C	3.0x3.0	Bd 12+14+29 DL
751.00	B5344	i	10.00	24.00	1.7	30	DCC6C	3.0x3.0	Band 13 DL
763.00	B5341	i	10.00	26.00	2.2	50	DCC6C	3.0x3.0	Band 14 DL
781.50	B5114	i	11.00	39.00	1.6	28	DCC6C	3.0x3.0	Band 13 UL
787.00	B5113	i	22.00	35.00	2.1	30	DCC6C	3.0x3.0	Band 13+14 UL
793.00	B5380	i	10.00	25.00	1.8	38	DCC6C	3.0x3.0	Band 14 UL
717.00	B5657	i	38.00	55.00	1.3	40	DCC6C	3.0x3.0	Band 68+PPDR
718.00	B5631	i	30.00	40.00	1.6	30	DCC6C	3.0x3.0	Band 28a UL
725.50	B5328	i	45.00	60.00	2.5	35	DCC6C	3.0x3.0	Band 28 UL
780.50	B5393	i	45.00	60.00	2.5	35	DCC6C	3.0x3.0	Band 28 DL
789.50	B5604	i	63.00	100.00	3.4	32	DCC6C	3.0x3.0	Band 20+28 DL
806.00	B5131	i	30.00	n/a	1.8	15	DCC6C	3.0x3.0	Band 20 DL
847.00	B5130	i	30.00	50.00	2.4	31	DCC6C	3.0x3.0	Band 20 UL
822.50	B5321	i	15.00	30.00	2.1	40	DCC6C	3.0x3.0	Band 18 UL
831.50	B5348	i	35.00	52.00	2.1	30	DCC6C	3.0x3.0	Band 26 UL
831.50	B5634	i	35.00	50.00	1.3	40	DCC6C	3.0x3.0	Band 26 UL
836.50	B5176	i	25.00	46.00	1.7	49	DCC6C	3.0x3.0	Band 5 UL
836.50	**M5250**	**s**	25.00	40.00	1.4	50	MP050H	1.4x1.1	Band 5 UL
876.50	B5351	i	35.00	52.00	2.0	34	DCC6C	3.0x3.0	Band 26 DL
876.60	B5396	i	7.20	30.00	1.3	49	DCC6C	3.0x3.0	R-GSM UL
897.50	B5340	i	35.00	50.00	2.2	60	DCC6C	3.0x3.0	Band 8 UL
897.50	B5626	i	35.00	50.00	2.1	**73**	DCC6C	3.0x3.0	Band 8 UL
902.50	B5606	i	25.00	40.00	1.6	30	DCC6C	3.0x3.0	Band 8 Japan
907.50	B5322	i	15.00	30.00	2.0	44	DCC6C	3.0x3.0	Band 8 Japan
939.00	B5397	i	42.00	75.00	2.0	30	DCC6C	3.0x3.0	R-GSM DL
942.50	B5182	i	35.00	50.00	2.5	33	DCC6C	3.0x3.0	Band 8 DL
1230.00	B5646	i	80.00	180.00	2.4	40	DCC6C	3.0x3.0	GNSS
1446.45	B5128	i	37.10	80.00	2.5	50	DCC6C	3.0x3.0	Band 11+21 UL
1475.00	B5608	i	110.00	200.00	2.5	35	DCC6C	3.0x3.0	Band n75+n76

s: samples available (not yet in production)
o: obsolete (not for new designs)
i: data sheet is available in Internet

Basestation RF Filters (cont.)

Center Frequency MHz	Type		Usable Passband MHz	Bandwidth 20dB MHz	Insertion Attenuation dB	Band Rej. Rejection dB	Package	Size mm²	Application
1747.50	B5364	i	75.00	90.00	2.6	**58**	DCC6C	3.0x3.0	Band 3 UL
1747.50	B5625	i	75.00	95.00	2.5	**50**	DCC6C	3.0x3.0	Band 3 UL
1842.50	B5386	i	75.00	120.00	2.1	30	DCC6C	3.0x3.0	Band 3 DL
1845.00	B5376	i	90.00	135.00	2.1	35	DCC6C	3.0x3.0	Band 3 DL
1880.00	B5180	i	60.00	110.00	2.1	25	DCC6C	3.0x3.0	Band 2 UL
1880.00	B5375	i	60.00	80.00	2.5	**59**	DCC6C	3.0x3.0	Band 2 UL
1882.50	B5609	i	65.00	90.00	2.4	**49**	DCC6C	3.0x3.0	Band 25 UL
1917.50	B5613	i	5.00	30.00	2.6	27	DCC6C	3.0x3.0	Block H UL
1950.00	B5624	i	60.00	100.00	2.3	50	DCC6C	3.0x3.0	Band 1 UL
1962.50	B5181	i	65.00	95.00	2.8	30	DCC6C	3.0x3.0	Band 25 DL
2007.50	B5611	i	25.00	50.00	2.6	27	DCC6C	3.0x3.0	Band 70 DL
2140.00	B5377	i	60.00	130.00	2.8	35	DCC6C	3.0x3.0	Band 1 DL
2140.00	B5610	i	160.00	300.00	2.3	25	DCC6C	3.0x3.0	Band 1 DL ext.
2155.00	B5359	i	90.00	230.00	2.9	36	DCC6C	3.0x3.0	Band 66 DL
2310.00	B5342	i	10.00	60.00	2.2	45	DCC6C	3.0x3.0	Band 30 UL
2355.00	B5356	i	10.00	70.00	1.7	35	DCC6C	3.0x3.0	Band 30 DL
2535.00	B5115	i	70.00	130.00	2.5	32	DCC6C	3.0x3.0	Band 7 UL
2535.00	B5620	i	70.00	120.00	1.7	**49**	DCC6C	3.0x3.0	Band 7 UL
2655.00	B5122	i	70.00	140.00	2.3	36	DCC6C	3.0x3.0	Band 7 DL
1900.00	B5305	i	40.00	80.00	1.9	40	DCC6C	3.0x3.0	Band 39
2017.50	B5306	i	15.00	50.00	2.2	45	DCC6C	3.0x3.0	Band 34
2350.00	B5133	i	100.00	n/a	2.0	30	DCC6C	3.0x3.0	Band 40
2593.00	B5337	i	194.00	360.00	2.7	34	DCC6C	3.0x3.0	Band 41
2595.00	B5308	i	50.00	130.00	1.9	35	DCC6C	3.0x3.0	Band 38
3500.00	B5360	i	200.00	400.00	4.5	35	DCC6C	3.0x3.0	Band 42
3540.00	B5350	i	120.00	250.00	2.7	30	DCC6C	3.0x3.0	Band 42 partial
3600.00	B5638	i	400.00	600.00	4.0	25	DCC6C	3.0x3.0	Band n78 part.
3615.00	B5618	i	170.00	300.00	2.9	40	DCC6C	3.0x3.0	Band 48 (CBRS)
3700.00	B5366	i	200.00	400.00	4.0	35	DCC6C	3.0x3.0	Band 43
3840.00	B5659	i	280.00	500.00	3.6	30	DCC6C	3.0x3.0	C-Band (US)
3900.00	FK10A	s	200.00	500.00	2.7	30	DCC6C	3.0x3.0	Band n77 part.
4500.00	DK34	s	200.00	500.00	1.8	30	DCC6C	3.0x3.0	Band n79 part.
5250.00	B5656	i	200.00	400.00	2.9	30	DCC6C	3.0x3.0	Band 46 partial
5800.00	B5647	i	150.00	400.00	2.1	30	DCC6C	3.0x3.0	Band 46 partial

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Dualband Filters, Tripleband Filters and Diplexers

Center Frequency MHz	Type		Usable Passband MHz	Bandwidth 20dB MHz	Insertion Attenuation dB	Out of Band Rejection dB	Package	Size mm²	Application
694.5/782	B5635	i	43 / 10	n/a	3.0 / 3.3	25	DCC6C	3.0x3.0	Triplebd71+12+13
689.5/782	B5644	i	53 / 10	70 / 40	2.7 / 2.4	25	DCC6C	3.0x3.0	Triplebd71+12+13
689.5/820.5	B5630	i	53 / 7	70 / 40	2.5 / 2.0	25	DCC6C	3.0x3.0	Triplebd71+12+26
634.5/737	FK71B	s	35 / 18	70 / 40	2.7 / 2.5	27	DCC6C	3.0x3.0	Dualbd 71+85 **DL**
707 / 793	B5399	i	16 / 10	30 / 30	1.9 / 2.1	31	DCC6D	3.0x3.0	Bd 12+14 Diplx.
743.00	B5632	i	52.00	100.00	3.1 / 3.6	35	DCC6C	3.0x3.0	Tripl.12+14+29**DL**
718 / 847	B5394	i	30 / 30	50 / 50	2.6 / 2.6	30	DCC6C	3.0x3.0	Dualband 20+28a
718 / 873.5	B5661	i	30 / 83	45 / 100	2.3 / 3.0	25-30	DCC6D	3.0x3.0	Triplebd 28a+20+8
725.5/847	B5372	i	45 / 30	60 / 60	2.4 / 1.7	30	DCC6C	3.0x3.0	Dualband 20+28
725.5/836.5	B5633	i	45 / 25	55 / 45	2.4 / 1.6	40	DCC6C	3.0x3.0	Dualband 5+28
725.5/897.5	**BK84B**	**s**	45 / 35	60 / 55	1.3 / 2.0	40	DCC6D	3.0x3.0	Bd 8+28 Diplexer
725.5/902.5	B5643	i	45 / 25	60 / 40	2.1 / 2.1	40	DCC6C	3.0x3.0	Dualband 8+28
740/829/905	B5642	i	15/11/20	30/30/50	2.5/2.8/3.6	30	DCC6C	3.0x3.0	Triplebd 5+8+28
781.5/836.5	B5602	i	11 / 25	30 / 50	1.2 / 1.6	40	DCC6D	3.0x3.0	Bd 5+13 Diplex.
781.5/680.5	B5629	i	11 / 35	30 / 50	1.8 / 2.5	36	DCC6C	3.0x3.0	Dualband 13+71
795.5/874.5	B5637	i	17 / 13	40 / 45	1.7 / 2.0	43	DCC6C	3.0x3.0	Dualb.B26+28 **DL**
847/897.5	B5628	i	30 / 35	40 / 50	1.9 / 2.1	30	DCC6C	3.0x3.0	Dualband B20+8
1747 / 1950	B5621	i	75 / 60	96 / 105	3.0 / 2.8	30	DCC6C	3.0x3.0	Dualband B1+3
1747 / 1950	B5389	i	75 / 60	100 / 105	2.2 / 2.3	37	DCC6D	3.0x3.0	Bd 1+3 Diplexer
1842.5/2140	FK46A	s	75 / 60	100 / 90	2.2 / 2.5	35	DCC6C	3.0x3.0	Dualbd B1+3 **DL**
1745/1882.5	B5392	i	70 / 65	100 / 90	2.0 / 2.4	35	DCC6D	3.0x3.0	Bd 25+66 Diplx.
1745/1882.5	B5622	i	70 / 65	90 / 80	2.4 / 2.2	40	DCC6D	3.0x3.0	Bd 25+66 Diplx.
1962.5/2155	FK45A	s	65 / 90	100 / 115	2.1 / 2.0	40	DCC6C	3.0x3.0	Dualb.B25+66 **DL**
1747.5/2535	FK40	s	75 / 70	100 / 120	1.8 / 2.4	30	DCC6D	3.0x3.0	Bd 3+7 Diplexer

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Trunked Radio and SatCom Filters

Center Frequency MHz	Type		Usable Passband MHz	Bandwidth 20dB MHz	Insertion Attenuation dB	Out of Band Rejection dB	Package	Size mm²	Application
392.50	B5334	i	25.00	50.00	2.8	40	QCC8B	3.8x3.8	TETRA
392.5/417.5	B5338	i	25 / 25	55 / 55	2.2 / 2.2	30	QCC8C	5.0x5.0	TETRA 2in1
412.50	B5617	i	5.00	12.00	1.4	35	DCC6C	3.0x3.0	TETRA
417.50	B5335	i	25.00	50.00	3.0	40	QCC8B	3.8x3.8	TETRA
440.50	B5173	i	15.00	25.00	1.9	40	QCC8B	3.8x3.8	DMR/PMR
454.00	B5369	i	32.00	55.00	3.5	34	DCC6	3.8x3.8	DMR/PMR
460.00	B5058	i	20.00	42.00	2.0	30	QCC8B	3.8x3.8	TETRA
772.00	B5648	i	6.00	12.00	1.8	40	QCC8E	3.0x2.5	LMR700
772.00	B5660	i	6.00	16.00	2.2	40	DCC6C	3.0x3.0	LMR700
772 / 860.5	B5639	i	6 / 19	21 / 46	1.8 / 1.4	50	QCC8E	3.0x2.5	iDEN/APCO
815.50	B5046	i	19.00	46.00	2.6	40	DCC6D	3.0x3.0	TETRA/iDEN
855.50	B5650	i	9.00	18.00	2.0	40	DCC6C	3.0x3.0	LMR800
856.50	B5649	i	11.00	29.00	2.0	40	QCC8E	3.0x2.5	LMR800
1538.50	B5367	i	41.00	75.00	3.5	44	DCC6C	3.0x3.0	SatCom
1541.50	B5373	i	35.00	55.00	3.3	50	DCC6C	3.0x3.0	SatCom
1650.75	B5143	i	48.50	85.00	2.9	45	DCC6C	3.0x3.0	SatCom

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Filters and extractors for GNSS

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB, typ	Insertion Attenuation dB, max	Package	Size mm²	Comments
1572.50	**B7561**	**i**	67.00	1.1 - 1.7	1.5 - 2.5	QCR5D	1.1x0.9	L and L1 band; low GDR
1582.50	**B7560**	**i**	47.00	1.7	2.0 - 2.4	QCR5D	1.1x0.9	L1 band; very low GDR
1583.00	B7504	i	47.00	0.9 – 1.2	1.4 – 2.0	DLA4N	0.9x0.7	L1 band; low I.A. with high attenuation
1583.00	B8813	i	47.00	0.85 – 1.2	1.4 – 1.9	QCT5F	1.1x0.9	L1 band; low insertion attenuation
1583.00	B8313	i	47.00	0.8 – 1.3	1.3 – 2.0	QCS5U	1.4x1.1	L1 band; low insertion attenuation
1583.00	B9621	i	47.00	1.0 - 1.4	1.4 - 2.4	QCS5P	1.4x1.1	L1 band; industrial grade
1176.00	B7505	i	20.00	0.9	1.3	DLA4N	0.9x0.7	L5, E5a, low insertion attenuation
1176.00	B8884	i	20.00	1.0	1.6	QCT5F	1.1x0.9	L5, E5a, low insertion attenuation
1176.45	B7525	i	20.00	1.3	1.6	QCT5F	1.1x0.9	L5
1197.00	B8889	i	62.00	0.9 – 1.4	1.3 – 2.6	QCR5D	1.1x0.9	L2+L5, E5a, E5b, G3, B2-1
1199.00	**B7562**	**i**	66.00	1.5	2.2	QCR5D	1.1x0.9	L5, E5a, E5b, G3, B2-1, L2; low GDR
1225.00	B2642	i	118.00	1.1 – 2.2	1.5 – 2.4	QCS5P	1.4x1.1	L2, G2, B3-1, E6+L5, E5a, E5b, G3, B2-1
1176.00 1583.00	B1267	i	20.00 47.00	1.2 1.2 – 1.5	2.2 1.5 – 2.2	QLC10G	1.5x1.1	diplexer for L1+L5, E5a
1197.00 1583.00	B9973	i	62.00 47.00	1.2 – 1.7 1.3 – 1.6	2.0 – 2.1 1.7 – 2.0	QLC10G	1.5x1.1	diplexer for L1+L2+L5, E5a, E5b, G3, B2-1
1176.45 1583.00	**B8389**	**i**	20.46 48.00	1.0 1.8	1.6 2.5	QCR5G	1.4x1.1	double hump filter for L1+L5, low GDR
	B8666	i	47.00	0.8 - 1.5	1.5 - 3.5	QLA10B	1.7x1.3	L1 GPS/Glonass/ Beidou extractor
	B8939	i	47.00	0.8 - 1.6	1.5 - 4.1	QLC10M	1.5x1.1	L1 GPS/Glonass/ Beidou extractor
	B8937	i	20.00	1.0	2.1	QLC10L	1.5x1.1	L5 GPS/Glonass/ Beidou extractor

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Filters for Smallcells and Convergence Application (Femtocells, …)

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB	Package	Size mm²	Application
1890.00	B9479	i	20.00	2.1	QCS5I	1.1x1.4	**DECT** Europe Rx/Tx filter - Consumer
1950.00	B9610	i	60.00	2.0	QCS5P	1.1x1.4	Band **1** Uplink filter - Industrial
2140.00	B9622	i	60.00	2.0	QCS5P	1.1x1.4	Band **1** Downlink filter - Industrial
1880.00	B9611	i	60.00	2.5	QCS5M	1.1x1.4	Band **2** Uplink filter - Industrial
1960.00	B9619	i	60.00	2.5	QCS5P	1.1x1.4	Band **2** Downlink filter - Industrial
1747.50	B9624	i	75.00	2.4	QCS5P	1.1x1.4	Band **3** Uplink filter - Industrial
1842.50	B9639	i	75.00	2.3	QCS5P	1.1x1.4	Band **3** Downlink filter - Industrial
836.50	B9613	i	25.00	1.6	QCS5P	1.1x1.4	Band **5** Uplink filter - Industrial
881.50	B9612	i	25.00	1.8	QCS5P	1.1x1.4	Band **5** Downlink filter - Industrial
2535.00	B9636	i	70.00	1.6	QCS5P	1.1x1.4	Band **7** Uplink filter - Industrial
2655.00	B9623	i	70.00	2.2	QCS5P	1.1x1.4	Band **7** Downlink filter - Industrial
897.50	B9633	i	35.00	2.5	QCS5P	1.1x1.4	Band **8** Uplink filter - Industrial
942.50	B9630	i	35.00	2.1	QCS5P	1.1x1.4	Band **8** Downlink filter - Industrial
737.50	B9620	i	17.00	2.0	QCS5P	1.1x1.4	Band **12/17** Downlink filter - Industrial
707.50	B9616	i	17.00	2.2	QCS5P	1.1x1.4	Band **12/17** Uplink filter - Industrial
782.00	B9627	i	10.00	1.5	QCS5P	1.1x1.4	Band **13** Uplink filter - Industrial
751.00	B9638	i	10.00	2.1	QCS5P	1.1x1.4	Band **13** Downlink filter - Industrial
847.00	B9632	i	30.00	1.5	QCS5M	1.1x1.4	Band **20** Uplink filter - Industrial
806.00	B9631	i	30.00	2.1	QCS5P	1.1x1.4	Band **20** Downlink filter - Industrial
725.50	B9644	i	45.00	1.9	QCS5P	1.1x1.4	Band **28** Uplink filter - Industrial
2155.00	B9642	i	90.00	2.4	QCS5P	1.1x1.4	Band **66** Downlink filter - Industrial
3550.00	B9648	i	300.00	3.1	QCS5P	1.1x1.4	Band **78** Receive filter - Industrial
3350 / 3750	B9729	i	100.00	1.5 / 1.9	QCV8A	1.4x1.8	Band **78** Receive filter - Industrial
2345.00	B9637	i	50.00	2.1	QCS5P	1.1x1.4	Band **40_{50MHz}** - Post PA filter - Industrial
2345.00	B8364	i	50.00	1.7	QLA3E	1.6x2.0	Band **40_{50MHz}** - Post PA filter - Consumer
2335.00	B9635	i	70.00	1.9	QCS5P	1.1x1.4	Band **40_{70MHz}** - Post PA filter - Industrial
2335.00	B9647	i	70.00	1.3	QCD9U	1.6x2.0	Band **40_{70MHz}** - Post PA filter - Industrial
2345.00	B9682	i	90.00	2.2	QCD9U	1.6x2.0	Band **40** - Post PA filter - Industrial
2593.00	B9650	i	194.00	2.2	QCU5U	1.1x1.4	Band **n41** - Receive - Industrial
2593.00	MQ58	s	194.00	2.0	MP090E	1.6x2.0	Band **n41** - Post PA - Industrial
2595.00	B9652	i	160.00	1.7	QCS5P	1.1x1.4	Band **$n41_{160MHz}$** - Receive - Industrial
2595.00	**B9685**	**i**	160.00	2.7	QCD9U	1.6x2.0	Band **$n41_{160Mhz}$** - Post PA filter - Industrial
3450.00	MQ46	s	300.00	2.3	MP090E	1.6x2.0	Band **$n78_{partial}$** - Post PA filter - Industrial
3625.00	B9641	i	150.00	2.1	QCS5P	1.1x1.4	Band **n48** - Uplink filter - Industrial
3625.00	B9651	i	150.00	3.2	QCE9C	1.6x2.0	Band **n48** - Post PA filter - Industrial
3840.00	MQ83	s	280.00	2.5	MP090E	1.6x2.0	Band **$n77_{partial}$** - Post PA filter - Industrial

s: samples available (not yet in production)
o: obsolete (not for new designs)
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Duplexers for Smallcells and Convergence Application (Femtocells, ...)

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB	Package	Size mm²	Application
1950 / 2140	B8203	i	60.00	2.1 / 1.6	QCS9P	2.0x2.5	Band **1** Dpx Smallcells, high isolation - Industr.
1950 / 2140	D7910	i	60.00	3.0 / 2.6	ML042B	8.1x8.1	Band **1** E-Dpx **-** very high isolation - Enterprise
1880 / 1960	B8047	i	60.00	2.0 / 2.0	QCS9P	2.0x2.5	Band **2** Dpx Smallcells, high power - Industrial
1880 / 1960	B8024	i	60.00	2.0 / 2.0	QCD9B	2.0x2.5	Band **2** Dpx Smallcells, BAW - Industrial
1722.5/ 1817.5	B8212	i	50.00	1.2 / 1.7	QCS9P	2.0x2.5	Band **$3_{partial}$** Dpx Smallcells - Industrial
1747.5/ 1842.5	B8018	i	75.00	3.5 / 2.6	QCS9P	2.0x2.5	Band **3** Dpx Smallcells - Industrial
1747.5/ 1842.5	B8044	i	75.00	3.8 / 2.7	QCS9P	2.0x2.5	Band **3** Dpx Smallcells - Industrial
1747.5/ 1842.5	D7906	i	75.00	4.4 / 3.3	ML042B	8.1x8.1	Band **3** E-Dpx **-** very high isolation - Enterprise
1760 / 1855	B8210	i	50.00	1.8 / 1.8	QCS9P	2.0x2.5	Band **$3_{partial}$** Dpx Smallcells - Industrial
1732.5 / 2132.5	B8033	i	45.00	2.1 / 1.7	QCS9P	2.0x2.5	Band **4** Dpx Smallcells, high power - Industrial
836.5 / 881.5	B8013	i	25.00	2.6 / 1.9	QCS9P	2.0x2.5	Band **5** Dpx Smallcells, high power - Industrial
2535 / 2655	B8043	i	70.00	2.1 / 1.9	QCS9P	2.0x2.5	Band **7** Dpx Smallcells - Industrial
2535 / 2655	D7908	i	70.00	2.8 / 2.7	ML042B	8.1x8.1	Band **7** E-Dpx - very high isolation - Enterprise
897.5 / 942.5	B8048	i	35.00	1.6 / 1.9	QCS9P	2.0x2.5	Band **8** Dpx Smallcells, high power - Industrial
897.5 / 942.5	D7905	i	35.00	2.2 / 2.5	ML042B	8.1x8.1	Band **8** E-Dpx - very high isolation - Enterprise
707.5 / 737.5	B8012	i	17.00	2.4 / 1.8	QCS9P	2.0x2.5	Band **12** Dpx Smallcells, high power - Industrial
707.5 / 737.5	D7904	i	17.00	2.9 / 2.0	ML042B	8.1x8.1	Band **12** E-Dpx - very high isolation - Enterprise
782 / 751	B8005	i	10.00	1.9 / 1.6	QCS9P	2.0x2.5	Band **13** Dpx Smallcells, high power - Industrial
763 / 793	B8039	i	10.00	1.4 / 1.5	QCS9P	2.0x2.5	Band **14** Dpx for Public Safety - Industrial
763 / 793	D7909	i	10.00	1.5 / 1.7	ML042B	8.1x8.1	Band **14** E-Dpx - very high isolation - Enterprise
847 / 806	B8030	i	30.00	2.1 / 2.1	QCS9P	2.0x2.5	Band **20** Dpx for Smallcell, high power - Industr.
831.5 / 876.5	B8209	i	35,00	1.2 / 1.6	QCS9P	2.0x2.5	Band **26** Dpx Smallcells, high power - Industr.
718 / 773	B8035	i	30.00	2.2 / 2.0	QCS9P	2.0x2.5	Band **28a** Dpx Smallcells, high power - Industr.
720.5 / 775.5	B8205	i	35.00	3.0 / 2.3	QCS9P	2.0x2.5	Band **$28a_{+5MHz}$** Dpx Smallcells, high pwr - Ind.
733 / 788	B8036	i	30.00	2.8 / 1.9	QCS9P	2.0x2.5	Band **28b** Dpx Smallcells, high power - Industr.
725.5 / 780.5	**B8216**	s	45.00	2.1 / 2.3	QCE9E	2.0x2.5	Band **28** Dpx Smallcells, high power - Industrial
2310 / 2355	B8207	i	10.00	2.1 / 2.1	QCS9P	2.0x2.5	Band **30** Dpx Smallcells, high power - Industr.
1745 / 2155	B8206	i	70 / 90	1.9 / 2.4	QCS9P	2.0x2.5	Band **66** Dpx Smallcells, high power - Industr.
680.5 / 634.5	B8213	i	35.00	1.7 / 1.6	QCS9P	2.0x2.5	Band **71** Dpx Smallcells, high power - Industrial

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Filters and Duplexers for M2M and IoT Applications

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB	Package	Size mm²	Application
412.50	B8705	i	5.00	1.5	QCA9N	2.5x2.0	LTE Band **87** Tx filter
413.50	B8704	i	7.00	1.6	QCA9N	2.5x2.0	LTE Band **87/88** Tx filter
423.50	B8383	i	7.00	1.7	QCV9I	2.0x1.6	LTE Band **87/88** Rx, 100 Ohms balanced
412.5 / 422.5	B1298	i	5.00	2.0	QCA9N	2.5x2.0	LTE Band **87** Dpx, 100 Ohms balanced RX
452.40	B5365	i	4.80	2.0	DCC6C	3.0x3.0	LTE Band **73** TX filter
452.50	B8701	i	5.00	2.0	QCA9N	2.5x2.0	LTE Band **73** TX filter, small size
462.50	B5363	i	5.00	2.4	DCC6D	3.0x3.0	LTE Band **73** RX, 100 Ohms balanced
452.5 / 462.5	B8691	i	5.00	1.7 / 2.6	QCA9N	2.5x2.0	LTE Band **73** Dpx, 100 Ohms balanced RX
453.50	B8703	i	5.00	1.5	QCA9N	2.5x2.0	LTE Band **72** TX filter
463.50	B8372	i	5.00	1.8	QCV9I	2.0x1.6	LTE Band **72** RX, 100 Ohms balanced
453.5 / 463.5	B1281	i	5.00	1.4 / 2.6	QCA9N	2.5x2.0	LTE Band **72** Dpx, 100 Ohms balanced RX
455.00	B8702	i	4.50	2.1	QCA9N	2.5x2.0	LTE Band **31** TX filter
453.75	B8706	i	7.50	2.1	QCA9N	2.5x2.0	LTE Band **31/72/73** TX filter
465.00	B8359	i	5.00	1.9	QCV9I	2.0x1.6	LTE Band **31** RX, 100 Ohms balanced
464.25	B8384	i	6.50	1.6	QCV9I	2.0x1.6	LTE Band **31/72** RX, unbalanced
455.0 / 465.0	B1220	i	5.00	1.8 / 2.7	QCA9N	2.5x2.0	LTE Band **31** Dpx, 100 Ohms balanced RX
455.0 / 465.0	B1259	**o**	5.00	**1.3 / 2.0**	QCA9N	2.5x2.0	LTE Band **31** Dpx, unbal, **low loss**
707.5 / 737.5	B8040	i	17.00	2.0 / 2.2	QCU9L	2.0x1.6	LTE Band **12** Dpx, unbalanced RX
718.0 / 773.0	B8041	i	30.00	2.3 / 2.3	QCU9L	2.0x1.6	LTE Band **28a** Dpx, unbalanced RX
733.0 / 788.0	B8042	i	30.00	2.1 / 2.3	QCU9L	2.0x1.6	LTE Band **28b** Dpx, unbalanced RX
751.0 / 782.0	B8031	**o**	20.00	1.7 / 2.7	QCD9M	2.5x2.0	LTE Band **13** Dpx, **NS07** rejection
831.5 / 876.5 680.5 / 634.5	B8970	i	35 / 35 35 / 35	1.6 / 2.2 1.6 / 1.7	QLA15G	3.0x2.0	LTE Band **26** + Band **71** Quadplexer
751.0 / 782.0 831.5 / 876.5	**BB81**	**s**	9.3 / 10 34 / 34	2.0 / 1.3 1.8 / 1.6	QLA15H	2.5x2.0	LTE Band **26** + Band **13 (NS07)** Quadplexer
881.5 / 742.5	B9988	i	25 / 27	1.7 / 2.7	QCR10I	1.5x1.1	LTE 2in1 Band **5+12/13** RX**,** unbalanced
1474.00	B8844	i	44.00	1.7	QCT5F	1.1x0.9	LTE Band **32** RX filter
1672.50	**B8392**	**i**	5.00	2.4	DCR5G	1.4x1.1	TDD Filter, private networks
1747.5/1842.5	B8208	i	75.00	2.0 / 2.7	QCU9M	2.0x1.6	LTE Band **3** Dpx, unbalanced RX - Industrial
2535 / 2655	B8699	**o**	70.00	1.9 / 2.8	QCS8C	1.8x1.4	LTE Band **7** Dpx, 100Ohms balanced RX
2512.00	B9649	i	72.00	1.4	QCS5P	1.4x1.1	
2600.00	B9646	i	110.00	1.7	QCS5P	1.4x1.1	TD-LTE Band **41** Tx post PA filter - Industrial

WiFi and Bluetooth Filters

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB	Package	Size mm²	Application
2442.00	B8873	i	79.00	2.0	QCR5D	1.1x0.9	**WiFi** Coexistence filter - Consumer
2442.00	B9634	i	84.00	1.9	QCU5S	1.4x1.1	**WiFi** Coexistence filter - Industrial
2442.00	B9645	i	84.00	1.5	QCU5G	1.1x0.9	**WiFi** Coexistence filter - Industrial
2442.00	**B7509**	**i**	77.80	1.1 - 1.7	QLB5B	1.1x0.9	**WiFi** superior coexistence filter - Consumer
2442.00	**B7530**	**i**	77.80	0.6 - 1.0	DLA4S	0.9x0.7	**WiFi** superior coexistence filter - Consumer
2441.00	B7506	i	79.00	1.1	QCR5D	1.1x0.9	**WiFi** filter - Consumer, optimized for Bluetooth
2448.00	B7511	i	91.00	1.4	QCU5W	1.1x0.9	**WiFi** filter - band-edge CH1..CH14
2437.00	B7539	i	67.80	1.0	QCR5D	1.1x0.9	**WiFi** filter - band-edge CH1..CH11
2441.20	B7520	i	79.40	1.2	QCR5D	1.1x0.9	**WiFi** Coexistence filter - Cons., self-matched
2441.75	B8371	i	83.50	1.6	QCR5G	1.4x1.1	**WiFi** filter - Consumer, optimized for Bluetooth
2442.00	B7544	i	77.80	1.6	DLA4E	0.9x0.7	**WiFi** Coexistence filter - Cons., self-matched
2431.50	**B7563**	**i**	63.00	1.5	DLA4E	0.9x0.7	**WiFi** Coexistence filter - Cons., self-matched
2423.5/2466.5	B9964	i	47/29	1.7/2.1	QCT10V	1.7x1.3	2in1 **WiFi** filter CH1/CH6 + CH11 - Consumer
2423.5/2466.5	B9780	i	47/29	1.9/2.1	QCW9F	2.5x2.0	2in1 **WiFi** filter CH1/CH6 + CH11 - Industrial
2414/2480	B9965	i	26/2.0	1.8/2.5	QCT10K	1.5x1.1	2in1 **Bluetooth** filter CH37/38 + CH39 - Cons.
2414/2480	B9757	i	26/2.0	1.8/2.0	QCS10W	1.5x1.1	2in1 **Bluetooth** filter CH37/38 + CH39 - Ind.
5250.00	B8377	i	160.00	1.5	QLC5M	1.4x1.1	**WiFi** Coexistence filter UNII1-2a - Consumer
5692.50	B8378	i	405.00	1.8	QLC5N	1.4x1.1	**WiFi** Coexistence filter UNII2c-4 - Consumer
5497.50	B8381	i	655.00	2.3	QLD5D	1.4x1.1	**WiFi** Coexistence filter UNII 1-3 - Consumer
5502.50	B7540	i	665.00	2.2	QLC5K	1.1x0.9	**WiFi** Coexistence filter UNII 1-3 - Consumer
5532.50	B8379	i	725.00	2.6	QLC5R	1.4x1.1	**WiFi** Coexistence filter UNII 1-4 - Consumer
6535.00	B8380	i	1180.00	2.5	QLE8N	1.8x1.4	**WiFi** Coexistence filter UNII 5-8 - Consumer

Filters for IoT and Industrial Application (ISM)

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB	Package	Size mm²	Application
169.50	B3942	i	0.20	1.9	QCC8C	5.0x5.0	
345.00	B3408	i	0.80	2.5	DCC6C	3.0x3.0	
428.00	B3411	i	16.00	2.0	DCC6C	3.0x3.0	
433.42	B3735	i	0.32	2.2	DCC6E	3.0x3.0	
433.92	B3710	i	1.70	2.0	DCC6C	3.0x3.0	
845.00	B3438	i	12.00	1.4	DCC6C	3.0x3.0	
866.50	B4377	i	7.00	2.3	QCS5P	1.1x1.4	
866.50	B3717	i	7.00	2.2	DCC6C	3.0x3.0	
866.50	B3420	i	7.00	1.8	DCC6C	3.0x3.0	high power version of B3717
866.50	B9972	i	7.00	2.6	QCU10M	1.1x1.5	868+915 MHz diplexer
868.00	B3430	i	10.00	2.0	DCC6C	3.0x3.0	
868.30	B3734	i	0.30	3.2	DCC6E	3.0x3.0	
868.30	B3744	i	0.60	3.0	QCR5D	3.0x3.0	
868.60	B3746	i	1.20	2.6	DCC6E	3.0x3.0	
868.95	B3941	i	0.50	3.2	DCC6E	3.0x3.0	
869.00	B2600	i	14.00	1.6	QCS5P	1.1x1.4	
869.00	B4365	i	2.00	2.5	QCS5P	1.1x1.4	superior LTE coexistence (B20 Tx) and low IL
869.00	B3440	i	2.00	2.6	DCC6C	3.0x3.0	superior LTE coexistence (B20 Tx) and low IL
869.00	B4316	i	2.00	2.0	QCS5P	1.1x1.4	
869.00	B3715	i	2.00	2.6	DCC6C	3.0x3.0	
869.00	B3716	i	2.00	2.5	DCC6C	3.0x3.0	GSM attenuation
869.00	B2636	i	2.00	2.7	QCS5P	1.1x1.4	high attenuation @ 862 MHz and 25 °C
869.00	B3725	i	2.00	2.5	DCC6C	3.0x3.0	improved nearby attenuation
869.00	B2674	i	2.00	1.8	QCS5I	1.1x1.4	
872.00	B3443	i	8.00	3.0	DCC6C	3.0x3.0	wideband filter,superior LTE coexistence(B20Tx)
908.42	B3943	i	0.30	2.9	DCC6E	3.0x3.0	Z-Wave

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Filters for IoT and Industrial Application (ISM) (cont.)

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB	Package	Size mm²	Application
915.00	B4344	i	26.00	2.8	QCS5P	1.1x1.4	high attenuation @ 894 MHz (LTE B5/26)
915.00	B3728	i	26.00	2.2	DCC6C	3.0x3.0	
915.00	B2671	i	26.00	1.5	QCR5D	0.9x1.1	
915.00	B2672	i	26.00	1.1	QCS5I	1.1x1.4	low insertion loss
915.00	B4379	i	26.00	1.9	QCR5N	0.9x1.1	
915.00	B2625	i	26.00	1.7	QCS5P	1.1x1.4	Top, max = 125 °C; high out of band attenuation
915.00	B4301	i	26.00	1.5	QCS5P	1.1x1.4	high out of band attenuation
915.00	B3435	i	26.00	1.6	DCC6C	3.0x3.0	se/bal pin configuration
915.00	B9972	i	26.00	1.9	QCU10M	1.1x1.5	868+915 MHz diplexer
915.00	B3726	i	10.00	2.6	DCC6C	3.0x3.0	
915.00	B3434	i	10.00	2.2	DCC6C	3.0x3.0	steeper skirts than B3726
915.70	B3432	i	5.80	0.6	DCC6C	3.0x3.0	low insertion loss
916.00	**B9660**	**i**	3.50	2.4	QCS5P	1.1x1.4	
916.00	B3718	i	3.50	2.4	DCC6C	3.0x3.0	
921.42	B3949	i	0.30	3.2	DCC6E	3.0x3.0	Z-Wave
921.50	B2615	i	13.00	1.4	QCS5P	1.1x1.4	Australia
922.50	B2619	i	5.00	1.4	QCS5P	1.1x1.4	Hong Kong
922.50	B3407	i	5.00	1.5	DCC6C	3.0x3.0	Hong Kong
924.00	B3945	i	1.20	2.7	DCC6E	3.0x3.0	New Zealand
924.15	B3419	i	7.10	2.0	DCC6C	3.0x3.0	
924.50	B2616	i	5.00	2.1	QCS5P	1.1x1.4	New Zealand
925.00	B3919	i	3.20	1.4	DCC6C	3.0x3.0	Japan
925.15	B4336	i	5.90	1.7	QCS5P	1.1x1.4	Japan
925.15	B8331	i	5.90	1.8	QCS5I	1.1x1.4	Japan
925.20	B2645	i	5.80	1.3	QCS5P	1.1x1.4	Japan
925.20	B3926	i	5.80	1.4	DCC6C	3.0x3.0	Japan
925.20	B3916	i	5.80	0.6	DCC6C	3.0x3.0	Japan - low insertion loss
925.20	B3921	i	5.80	1.6	DCC6C	3.0x3.0	Japan - high selectivity
925.40	B3446	i	4.70	2.0	DCC6C	3.0x3.0	superior LTE coexistence

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Band-stop Filters for Mobile TV, TV, Tuner and Set-Top-Box Applications

Passband MHz	Rejection band MHz	Type		Standard	Size	Features
0 - 686	703 - 862	B8734	i	DVB-T VHF and UHF band	1.4 x 1.1 x 0.4 mm³	Single ended operation at 50Ω. Low loss and low ripple.
0 - 710	718 - 748, 815 - 845, 900 - 915	B8733	**o**	ISDB-T 1 seg	1.4 x 1.1 x 0.4 mm³	Single ended operation at 50Ω. Low loss and low ripple.
470 - 710	718 - 748, 755 - 765, 815 - 845	B1676	i	ISDB-T 1 seg	3.0 x 3.0 x 1.1 mm³	Single ended operation at 50Ω. Low loss and low ripple.
470 - 686	699 - 862	B1679	i	DVB-T UHF band	3.0 x 3.0 x 1.1 mm³	Single ended operation at 50Ω. Low loss and low ripple.

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