



# SAW DEVICE SELECTION TABLE

for

## Infrastructure Systems

(Basestations / Broadband Wireless Access / WiMAX / Trunked Radio / Industrial Applications / Convergence Application)

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Electronic Parts and Components

**Basestation IF Filters**

Center Frequency MHz	Type		Usable Passband MHz	Bandwidth 20dB MHz	Insertion Attenuation dB	Out of Band dB	Package	Size mm <sup>2</sup>	Application
119,60	B5014	o	0,15	0,87	6,5	40	QCC10B	9,15x4,8	GSM-Rx
170,60	<b>B5216</b>	i	0,18	0,65	5,6	47	DCC12A	13,3x6,5	GSM-Rx
201,00	B5045	o	0,22	0,54	4,4	40	DCC12A	13,3x6,5	GSM-Rx
248,60	B3892	o	0,20	0,63	4,7	50	DCC12A	13,3x6,5	GSM-Rx
248,60	B3893	o	0,70	8,60	1,3	60	QCC12C	7,0x5,0	GSM-Rx
122,88	B5245	i	0,10	2,50	6,2	40	QCC12C	7,0x5,0	Clean-up
491,52	B5217	i	0,20	3,70	7,0	45	QCC12C	7,0x5,0	Clean-up
88,50	B5050	o	3,78	8,00	7,4	60	QCC12E	7,0x5,0	CDMA2000-Rx
183,60	B5201	o	1,36	2,80	10,0	50	DCC12A	13,3x6,5	CDMA-Rx
240,00	B3873	o	1,10	2,20	14,0	45	DCC18	19,0x6,5	CDMA2000-Rx
240,00	B3865	o	3,60	5,30	14,0	45	DCC12A	13,3x6,5	CDMA2000-Rx
153,60	B5206	i	20,00	29,00	7,8	57	QCC12E	7,0x5,0	TD-SCDMA
153,60	B5248	s	31,60	42,00	10,7	60	QCC12E	7,0x5,0	TD-SCDMA
153,60	B5239	i	40,00	55,00	12,2	60	QCC12E	7,0x5,0	TD-SCDMA
138,20	B5233	i	35,00	47,00	10,4	45	QCC12E	7,0x5,0	CDMA/LTE
161,28	B5051	o	20,00	30,00	9,2	55	QCC10B	9,15x4,8	W-CDMA
164,00	B5204	i	20,00	30,00	7,5	40	QCC12E	7,0x5,0	LTE
167,00	B5060	o	10,00	17,00	6,9	50	QCC12E	7,0x5,0	W-CDMA
167,00	B5070	i	15,00	22,00	7,3	50	QCC12E	7,0x5,0	W-CDMA
168,96	B3881	i	13,34	16,50	18,5	45	QCC10B	9,15x4,8	W-CDMA
168,96	B3882	i	3,84	5,90	13,0	55	QCC10B	9,15x4,8	W-CDMA
168,96	B3883	i	13,90	19,50	8,0	45	QCC10B	9,15x4,8	W-CDMA
172,80	B5220	i	21,00	30,00	9,4	60	QCC12E	7,0x5,0	W-CDMA/LTE
184,32	AI22A	s	65,00	77,00	17,8	45	QCC12E	7,0x5,0	LTE
184,32	LI99A	s	75,00	104,00	20,3	34	QCC12E	7,0x5,0	LTE
192,00	B5087	i	60,00	70,00	15,2	50	QCC12E	7,0x5,0	W-CDMA/LTE
208,00	B5035	o	3,84	4,90	11,0	50	QCC10B	9,15x4,8	W-CDMA
211,00	B5071	o	19,00	33,00	8,1	60	QCC12E	7,0x5,0	W-CDMA/LTE
230,40	<b>AI42A</b>	s	75,00	92,00	10,4	41	QCC12E	7,0x5,0	LTE
326,40	B3807	o	15,00	27,00	2,5	50	QCC8C	5,0x5,0	W-CDMA
358,40	B5215	i	19,20	32,00	11,0	40	QCC12E	7,0x5,0	LTE
380,00	B3825	o	3,84	6,00	9,0	40	QCC12C	7,0x5,0	W-CDMA
570,00	B3826	o	3,84	6,50	11,8	48	QCC12C	7,0x5,0	W-CDMA

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



**Basestation RF Filters**

Center Frequency MHz	Type	Usable Passband MHz	Bandwidth 20dB MHz	Insertion Attenuation dB	Out of Band dB	Package	Size mm <sup>2</sup>	Application	
453,74	B5061	i	7,48	21,00	2,2	48	DCC6C	3,0x3,0	CDMA 450
463,74	B5027	o	7,48	21,00	2,0	50	QCC8C	5,0x5,0	CDMA 450
707,00	B5107	i	18,00	34,00	1,6	40	DCC6C	3,0x3,0	BC12-Rx
737,00	B5124	i	20,00	35,00	1,9	40	DCC6C	3,0x3,0	BC12-Tx
751,50	B5116	i	11,00	38,00	1,5	30	DCC6C	3,0x3,0	BC13-Tx
766,50	B5117	i	17,00	37,00	2,0	30	DCC6C	3,0x3,0	BC14-Tx
781,50	B5114	i	11,00	39,00	1,6	28	DCC6C	3,0x3,0	BC13-Rx
787,00	B5113	i	22,00	39,00	2,1	30	DCC6C	3,0x3,0	BC13+14-Rx
796,50	B5118	i	17,00	37,00	1,8	32	DCC6C	3,0x3,0	BC14-Rx
806,00	B5131	i	30,00	n/a	1,8	25	DCC6C	3,0x3,0	BC20-Tx
847,00	B5130	i	30,00	50,00	2,4	31	DCC6C	3,0x3,0	BC20-Rx
833,00	B5008	i	34,00	50,00	1,9	21	DCC6C	3,0x3,0	CDMA Cellular
836,50	B4180	i	25,00	48,00	2,2	25	DCC6C	3,0x3,0	GSM 850
867,50	B5059	i	25,00	50,00	2,5	47	DCC6C	3,0x3,0	LTE Band XVIII
881,50	B4125	i	25,00	50,00	2,6	45	DCC6C	3,0x3,0	GSM 850
895,50	B5056	i	39,00	62,00	2,1	25	DCC6C	3,0x3,0	R-GSM
897,50	B4130	i	35,00	60,00	2,0	22	DCC6C	3,0x3,0	GSM 900
940,50	B5057	i	39,00	60,00	2,7	35	DCC6C	3,0x3,0	R-GSM
942,50	B4127	i	35,00	60,00	2,4	25	DCC6C	3,0x3,0	GSM 900
942,50	B4124	i	35,00	58,50	3,0	50	DCC6C	3,0x3,0	GSM 900
1446,45	B5128	i	37,10	80,00	2,5	50	DCC6C	3,0x3,0	LTE 1500
1732,50	B5109	i	45,00	90,00	1,7	28	DCC6C	3,0x3,0	AWS/Band IV
1740,00	B5125	i	60,00	100,00	2,2	40	DCC6C	3,0x3,0	LTE Band X
1747,50	B3832	i	75,00	140,00	2,0	40	DCC6C	3,0x3,0	GSM 1800
1747,50	B5085	i	75,00	200,00	2,5	25	DCC6C	3,0x3,0	GSM 1800
1747,50	<b>B5159</b>	<b>s</b>	75,00	140,00	2,2	40	DCC6C	3,0x3,0	GSM 1800
1762,50	B5110	i	45,00	90,00	1,7	28	DCC6C	3,0x3,0	LTE Band IX
1842,50	B4142	i	75,00	140,00	3,0	30	DCC6C	3,0x3,0	GSM 1800
1842,50	B4166	i	75,00	140,00	2,9	25	DCC6C	3,0x3,0	GSM 1800
1880,00	B5104	i	60,00	210,00	2,3	25	DCC6C	3,0x3,0	GSM 1900
1882,50	B4182	i	65,00	100,00	2,5	30	DCC6C	3,0x3,0	CDMA PCS+G
1960,00	B4150	i	60,00	100,00	2,8	30	DCC6C	3,0x3,0	CDMA PCS
1962,50	B5142	o	65,00	n/a	2,9	20	DCC6C	3,0x3,0	CDMA PCS+G
1900,00	B5129	s,i	40,00	n/a	2,8	40	DCC6C	3,0x3,0	TD-SCDMA
1910,00	B3824	i	20,00	104,00	2,0	33	QCC8D	3,0x3,0	TD-SCDMA
2017,50	B5140	s,i	15,00	n/a	4,2	45	DCC6C	3,0x3,0	TD-SCDMA
2350,00	B5133	i	100,00	n/a	2,0	30	DCC6C	3,0x3,0	TD-LTE
2595,00	B5154	s,i	50,00	130,00	2,6	30	DCC6C	3,0x3,0	TD-LTE
1950,00	B3668	i	60,00	127,00	3,0	25	DCC6C	3,0x3,0	W-CDMA
1950,00	B5064	i	60,00	107,00	2,8	25	DCC6C	3,0x3,0	W-CDMA
1950,00	B5127	i	20,00	n/a	2,5	35	DCC6C	3,0x3,0	W-CDMA
2140,00	B3669	i	60,00	137,00	3,0	25	DCC6C	3,0x3,0	W-CDMA
2535,00	B5115	i	70,00	130,00	2,5	32	DCC6C	3,0x3,0	LTE/Band VII
2655,00	<b>B5122</b>	<b>s</b>	70,00	140,00	2,3	36	DCC6C	3,0x3,0	LTE/Band VII

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



**Broadband Wireless Access and WiMAX Filters**

Center Frequency MHz	Type		Usable Passband MHz	Bandwidth 20dB MHz	Insertion Attenuation dB	Out of Band Rejection dB	Package	Size mm <sup>2</sup>
110,59	B4542	o	1,10	1,90	12,2	50	QCC12C	7,0x5,0
110,59	B5232	i	1,15	3,00	4,0	40	QCC12C	7,0x5,0
140,00	<b>B5250</b>	s	2,00	4,40	11,6	45	QCC12E	7,0x5,0
140,00	<b>B5247</b>	s	3,80	7,20	8,6	40	QCC12E	7,0x5,0
140,00	<b>B5249</b>	s,i	7,40	13,50	12,4	45	QCC12E	7,0x5,0
140,00	B5210	o	9,60	18,00	8,6	45	QCC12	13,3x6,5
140,00	B5209	o	12,00	22,00	7,8	55	QCC12	13,3x6,5
140,00	B3608	o	15,00	19,00	8,0	50	QCC12	13,3x6,5
140,00	B5246	s,i	15,00	21,00	11,4	45	QCC12E	7,0x5,0
140,00	B5211	o	17,60	30,00	8,7	45	QCC12	13,3x6,5
140,00	<b>B5235</b>	i	40,00	53,00	10,8	45	QCC8B	3,8x3,8
145,00	B5229	i	30,50	40,00	8,9	45	QCC12	13,3x6,5
245,00	B5230	i	30,50	40,00	9,2	50	QCC12C	7,0x5,0
252,00	B5231	i	32,00	41,50	9,2	50	QCC12C	7,0x5,0
276,50	B5241	i	20,00	33,00	9,3	50	QCC12C	7,0x5,0
330,00	B5212	s	55,00	80,00	12,5	45	QCC8C	5,0x5,0
456,00	B5011	o	3,70	5,60	8,5	45	QCC12E	7,0x5,0
456,00	B5034	o	4,80	8,10	6,8	50	QCC12E	7,0x5,0
456,00	B5032	o	10,40	16,80	8,7	35	QCC12E	7,0x5,0
456,00	B5075	i	10,00	23,00	2,1	40	QCC8B	3,8x3,8
468,00	B5040	o	4,50	7,40	11,2	55	QCC12E	7,0x5,0
520,00	B5106	i	23,00	62,00	2,2	15	DCC6C	3,0x3,0
520,00	B5141	i	30,50	n/a	1,8	50	DCC6C	3,0x3,0
810,00	B4070	i	10,00	31,00	2,5	35	DCC6C	3,0x3,0
810,00	B5094	i	20,00	43,00	2,1	40	DCC6C	3,0x3,0
1080,00	B5157	i	30,00	n/a	1,6	40	DCC6C	3,0x3,0
2593,00	B5139	i	50,00	140,00	2,4	30	DCC6C	3,0x3,0

- \*: 30dB-bandwidth
- s: samples available (not yet in production)
- o: obsolete (not for new designs)
- i: data sheet is available in Internet



**Trunked Radio Filters**

Center Frequency MHz	Type		Usable Passband MHz	Bandwidth 20dB MHz	Insertion Attenuation dB	Out of Band Rejection dB	Package	Size mm <sup>2</sup>	Application
267,50	B5132	i	15,00	n/a	2,2	15	QCC8C	5,0x5,0	TETRA
304,00	LH57A	s	8,00	20,00	2,3	50	QCC8C	5,0x5,0	TETRA
355,00	B5073	i	10,00	17,00	1,8	30	QCC8B	3,8x3,8	TETRA
365,00	B5074	i	10,00	17,00	1,7	50	QCC8B	3,8x3,8	TETRA
382,50	B3683	i	5,00	13,00	2,4	45	QCC8C	5,0x5,0	TETRA
385,00	B3815	i	10,00	22,00	1,9	60	QCC8B	3,8x3,8	TETRA
390,00	B5047	i	20,00	32,00	3,1	20	QCC8B	3,8x3,8	TETRA
390 / 420	B4233	i	20 / 20	38 / 40	1,9 / 1,9	40	QCC8C	5,0x5,0	TETRA 2in1
390 / 415	B5151	i	20 / 30	50 / 60	1,8 / 2,2	25	QCC8C	5,0x5,0	TETRA 2in1
392,50	B3822	i	5,00	12,20	2,0	50	QCC8B	3,8x3,8	TETRA
395,00	B3830	i	10,00	22,00	1,5	60	QCC8B	3,8x3,8	TETRA
397,50	B3823	i	5,00	12,30	2,0	50	QCC8B	3,8x3,8	TETRA
415,00	B5053	i	10,00	21,00	2,3	40	QCC8B	3,8x3,8	TETRA
420,00	B5048	i	20,00	34,00	3,2	20	QCC8B	3,8x3,8	TETRA
420 / 460	<b>AF01A</b>	<b>s</b>	20 / 20	40 / 42	1,9 / 2,0	30	QCC8C	5,0x5,0	TETRA
422,50	B3681	i	5,00	13,10	2,0	40	QCC8B	3,8x3,8	TETRA
425,00	B5055	i	10,00	21,00	2,7	40	QCC8B	3,8x3,8	TETRA
446,00	LX66A	s	4,00	n/a	2,5	40	QCC8B	3,8x3,8	DMR/PMR
455,00	B5054	i	10,00	23,00	2,2	40	QCC8B	3,8x3,8	TETRA
460,00	B5058	i	20,00	42,00	2,0	30	QCC8B	3,8x3,8	TETRA
465,00	B5052	i	10,00	23,00	2,7	40	QCC8B	3,8x3,8	TETRA
769 / 809,5	B4236	s,i	14 / 31	42 / 50	1,7 / 2,3	55-60	QCC8E	3,0x2,5	iDEN/APCO
769 / 860,5	B4232	i	14 / 19	42 / 46	1,7 / 2,4	55-60	QCC8E	3,0x2,5	iDEN/APCO
815,50	B3836	i	19,00	45,00	2,1	40	DCC6C	3,0x3,0	iDEN
815,50	B5046	i	19,00	46,00	2,6	40	DCC6D	3,0x3,0	TETRA/iDEN
860,50	B4161	i	19,00	50,00	1,6	50	DCC6C	3,0x3,0	iDEN
860,50	B5013	i	19,00	50,00	3,0	45	DCC6D	3,0x3,0	TETRA/iDEN
899,00	B3835	i	6,00	35,00	1,9	50	DCC6C	3,0x3,0	iDEN
938,00	B4165	i	6,00	54,00	2,0	50	DCC6C	3,0x3,0	iDEN

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



**Filters for Industrial Applications**

Center Frequency MHz	Type		Usable Passband MHz	Bandwidth 20dB MHz	Insertion Attenuation dB	Out of Band Rejection	Package	Size mm <sup>2</sup>
121,00	B3886	o	3,50	6,00	10,2	45	QCC12C	7,0x5,0
158,55	B4908	i	5,00	8,50	2,5	60	QCC8B	3,8x3,8
173,80	B5068	i	24,00	27,50	9,3	45	QCC12E	7,0x5,0
246,00	B3678	i	10,10	16,00	1,9	43	QCC8C	5,0x5,0
371,00	B3643	o	2,00	3,30	10,0	45	QCC10B	9,15x4,8
499,25	B3688	o	2,00	4,40	8,0	45	QCC12C	7,0x5,0
610,00	B3690	i	2,70	5,50	9,5	45	QCC12C	7,0x5,0
1538,50	LX07C	s	41,00	80,00	2,8	45	DCC6C	3,0x3,0
1643,50	B5153	i	34,00	80,00	1,8	40	DCC6C	3,0x3,0
1650,75	B5143	i	48,50	85,00	2,9	45	DCC6C	3,0x3,0

- s: samples available (not yet in production)
- o: obsolete (not for new designs)
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**Filters for Convergence Application (Femtocells, Internet Access Points, ...)**

Center Frequency MHz	Type		Usable Passband MHz	Insertion Attenuation dB	Package	Size mm <sup>2</sup>	Application
942,5/1842,5	<b>B9521</b>	s,i	35 / 75	1,6 / 1,8	QCS10U	1,4x1,8	2in1 - GSM Eur. sniffers for femtocells
942,5/1842,5	<b>B9522</b>	s,i	35 / 75	2,3 / 3,1	QCS10U	1,4x1,8	2in1 diplexed output - GSM Eur. Sniffers
1950,00	B9414	i	60,00	2,5	QCS5I	1,1x,14	W-CDMA Band I Uplink filter
2140,00	B9451	i	60,00	2,1	QCS5U	1,1x1,4	W-CDMA Band I Downlink / Sniffer filter
1890,00	B9479	i	20,00	1,9	QCS5I	1,1x1,4	DECT Europe Rx filter
1732,50	B9443	i	45,00	2,6	QCS5I	1,1x1,4	W-CDMA/LTE band IV Uplink filter
881,5/1960	<b>B9520</b>	s,i	25 / 60	1,7 / 1,5	QCS10V	1,4x1,8	2in1 - Cell/PCS downlink / sniffers
836,5/1880	<b>B9518</b>	i	25 / 60	2,2 / 4	QCS10U	1,4x1,8	2in1 - Cell/PCS Uplink
1880,00	B9459	i	60,00	2,5	QCS5U	1,1x1,4	3G Bd II / PCS Uplink filter
1960,00	B9477	i	60,00	2,6	QCS5I	1,1x1,4	3G Bd II / PCS Downlink/Sniffer
836,50	B9425	i	25,00	1,7	QCS5I	1,1x1,4	3G Bd V / Cell Uplink filter
881,50	B9439	i	25,00	2,1	QCS5I	1,1x1,4	3G Bd V / Cell Downlink/Sniffer filter
1950 / 2140	<b>B7967</b>	i	60,00	2,2 / 2	QCS9T	3,0x2,5	3G Bd I duplexer for femtocells
1880 / 1960	B7692	i	60,00	2,2 / 2,6	QCT9W	3,0x2,5	3G Bd II duplexer for handset/femtocells
836,5 / 881,5	B7925	i	25,00	2,6 / 1,7	QCT9N	2,0x2,5	3G Bd V / CDMA BC0 dupl. for femtocells
1732,5 / 2132,5	AI47A	s	45,00	3 / 2,5	QCT9N	2,0x2,5	3G/LTE Bd IV duplexer for femtocell
763 / 793	B7929	i	10,00	2,1 / 2,1	QCT9V	2,0x2,5	3G Band 14 duplexer for public safety

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