

## SAW Filter LTE

### Feature

- Small Size
- High Reliable

### Specifications

Under Development

Band	Function	Impedance	Part Number	BW (MHz)	IL (Typ) (dB)	Power (dBm)	Package Size (mm)	Temp (°C)	MSL
1	Duplexer	Unbalance	SD-195004-C63	60 / 60	1.7 / 2.2	29	1.8 x 1.4	-20 ~ +85	3
1	Duplexer	Balance	SD-195003-C64	60 / 60	1.7 / 1.9	29	1.8 x 1.4	-20 ~ +85	3
1	Duplexer	Balance	SD-195005-C64	60 / 60	1.7 / 2.2	29	1.8 x 1.4	-20 ~ +85	3
1	Rx	Unbalance	SF-214002-C14	60	1.9	10	1.1 x 0.9	-30 ~ +85	3
1	Rx	Unbalance	SF-214007-C12	60	1.9	10	1.1 x 0.9	-30 ~ +85	3
1	Rx	Balance	SF-214003-C14	60	2.0	15	1.1 x 0.9	-30 ~ +85	3
1	Rx	Unbalance	SF-21400X-CXX	60	TBD	TBD	0.9 x 0.7	TBD	3
2	Duplexer	Unbalance	SD-188003-C63	59 / 59	2.1 x 2.2	29	1.8 x 1.4	-20 ~ +85	3
2	Rx	Unbalance	SF-196001-C14	60	2.3	10	1.1 x 0.9	-30 ~ +85	3
2	Rx	Unbalance	SF-196007-C12	60	2.6	10	1.1 x 0.9	-20 ~ +85	3
2	Rx	Balance	SF-196002-C14	60	2.8	10	1.1 x 0.9	-30 ~ +85	3
2	Rx	Unbalance	SF-19600X-CXX	60	TBD	TBD	0.9 x 0.7	TBD	3
3	Duplexer	Unbalance	SD-174703-C63	70 / 70	2.0 x 2.0	29	1.8 x 1.4	-20 ~ +85	3
3	Rx	Unbalance	SF-184205-C14	75	2.0	10	1.1 x 0.9	-20 ~ +85	3
1+3	QPX	Unbalance	SQ-214001-C5J (TF-SAW)	60/60/75/75	2.1/2.0/2.5/2.9	30	2.5 x 2.0	-30 ~ +85	3

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Band	Function	Impedance	Part Number	BW (MHz)	IL (Typ) (dB)	Power Package (dBm)	Size (mm)	Temp (°C)	MSL
3	Rx	Unbalance	SF-184207-C14	75	2.4	10	1.1 x 0.9	-20 ~ +85	3
3	Rx	Balance	SF-184206-C14	75	2.9	15	1.1 x 0.9	-30 ~ +85	3
3	Rx	Unbalance	SF-18420X-CXX	75	TBD	TBD	0.9 x 0.7	TBD	3
4	Rx	Unbalance	SF-214002-C14	60	1.9	10	1.1 x 0.9	-30 ~ +85	3
4	Rx	Balance	SF-214003-C14	60	2.0	15	1.1 x 0.9	-30 ~ +85	3
5	Duplexer	Unbalance	SD-083607-C63	25 / 25	1.8 / 1.9	29	1.8 x 1.4	-20 ~ +85	3
5	Duplexer	Unbalance	SD-083611-C63	25 / 25	1.6 / 1.9	29	1.8 x 1.4	-20 ~ +85	3
5	Duplexer	Balance	SD-083609-C64	25 / 25	1.5 / 1.8	29	1.8 x 1.4	-20 ~ +85	3
5	Duplexer	Balance	SD-083610-C64	25 / 25	1.7 / 1.9	29	1.8 x 1.4	-20 ~ +85	3
5	Rx	Unbalance	SF-088106-C14	25	1.3	10	1.1 x 0.9	-30 ~ +85	3
5	Rx	Unbalance	SF-088111-C14	25	1.7	10	1.1 x 0.9	-20 ~ +85	3
5	Rx	Balance	SF-088107-C14	25	1.5	15	1.1 x 0.9	-30 ~ +85	3
5	Rx	Unbalance	SF-08810X-CXX	25	TBD	TBD	0.9 x 0.7	TBD	3
6	Duplexer	Unbalance	SD-083607-C63	25 / 25	1.8 / 1.9	29	1.8 x 1.4	-20 ~ +85	3
6	Duplexer	Balance	SD-083609-C64	25 / 25	1.5 / 1.8	29	1.8 x 1.4	-20 ~ +85	3
6	Rx	Unbalance	SF-088106-C14	25	1.3	10	1.1 x 0.9	-30 ~ +85	3
6	Rx	Balance	SF-088107-C14	25	1.5	15	1.1 x 0.9	-30 ~ +85	3

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Band	Function	Impedance	Part Number	BW (MHz)	IL (Typ) (dB)	Power Package (dBm)	Size (mm)	Temp (°C)	MSL
7	Duplexer	Unbalance	SD-253505-C63	70 / 70	1.9 / 1.8	29	1.8 x 1.4	-20 - +85	3
7	Rx	Unbalance	SF-265502-C14	70	2.3	10	1.1 x 0.9	-30 - +85	3
7	Rx	Unbalance	SF-265506-C12	70	2.4	10	1.1 x 0.9	-20 - +85	3
7	Rx	Balance	SF-265503-C14	70	2.5	15	1.1 x 0.9	-30 - +85	3
7	Rx	Unbalance	SF-26550X-CXX	70	TBD	TBD	0.9 x 0.7	TBD	3
8	Duplexer	Unbalance	SD-089701-C63	35 / 35	2.6 / 2.5	29	1.8 x 1.4	-20 - +85	3
8	Duplexer	Balance	SD-089702-C64	35 / 35	2.2 / 2.2	29	1.8 x 1.4	-20 - +85	3
8	Duplexer	Balance	SD-089704-C64	35 / 35	2.2 / 2.1	29	1.8 x 1.4	-20 - +85	3
8	Rx	Unbalance	SF-094205-C14	35	2.0	10	1.1 x 0.9	-20 - +85	3
8	Rx	Balance	SF-094206-C14	35	1.9	10	1.1 x 0.9	-30 - +85	3
8	Rx	Unbalance	SF-09420X-CXX	35	TBD	TBD	0.9 x 0.7	TBD	3
19	Duplexer	Unbalance	SD-083607-C63	25 / 25	1.8 / 1.9	29	1.8 x 1.4	-20 - +85	3
19	Duplexer	Unbalance	SD-083611-C63	25 / 25	1.6 / 1.9	29	1.8 x 1.4	-20 - +85	3
19	Duplexer	Balance	SD-083609-C64	25 / 25	1.5 / 1.8	29	1.8 x 1.4	-20 - +85	3
19	Duplexer	Balance	SD-083610-C64	25 / 25	1.7 / 1.9	29	1.8 x 1.4	-20 - +85	3
19	Rx	Unbalance	SF-088106-C14	25	1.3	10	1.1 x 0.9	-30 - +85	3
19	Rx	Balance	SF-088107-C14	25	1.5	15	1.1 x 0.9	-30 - +85	3

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Band	Function	Impedance	Part Number	BW (MHz)	IL (Typ) (dB)	Power Package (dBm) Size (mm)		Temp (°C)	MSL
20	Duplexer	Unbalance	SD-08470X-CXX	30	TBD	TBD	TBD	TBD	3
28	Tx - A	Balance	SF-071802-C21	30	2.7	10	1.4 x 1.1	-30 - +85	3
28	Tx - A	Unbalance	SF-071803-C21	30	2.1	15	1.4 x 1.1	-10 - +85	3
28	Tx - B	Balance	SF-073303-C21	30	2.6	10	1.4 x 1.1	-30 - +85	3
28	Tx - Full	Unbalance	SF-072505-C28	45	2.3	10	1.4 x 1.1	-30 - +85	3
28	Rx - A	Balance	SF-077302-C21	30	1.9	10	1.4 x 1.1	-30 - +85	3
28	Rx - B	Balance	SF-078802-C21	30	2.1	10	1.4 x 1.1	-30 - +85	3
28	Rx - Full	Unbalance	SF-078004-C14	45	2.0	10	1.1 x 0.9	-40 - +85	3
34	Rx	Unbalance	SF-201702-C24	15	1.4	27	1.4 x 1.1	-30 - +85	3
34	TRx	Unbalance	SF-201703-C14	15	1.6	27	1.1 x 0.9	-20 - +85	3
38	Rx	Unbalance	SF-259503-C23	50	1.8	28	1.4 x 1.1	-30 - +85	3
38	Tx	Unbalance	SF-259504-C12	50	1.6	28	1.1 x 0.9	-30 - +85	3
38	Rx	Unbalance	SF-259505-C12	50	1.6	10	1.1 x 0.9	-30 - +85	3
38	Rx	Balance	SF-259506-C12	50	3.4	10	1.1 x 0.9	-30 - +85	3
39	Rx	Unbalance	SF-190006-C24	40	1.6	28	1.4 x 1.1	-30 - +85	3
39	Tx	Unbalance	SF-190007-C14	40	1.9	28	1.1 x 0.9	-30 - +85	3
39	Rx	Unbalance	SF-190008-C14	40	1.9	15	1.1 x 0.9	-30 - +85	3

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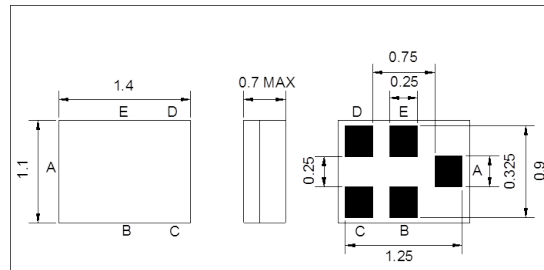
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Band	Function	Impedance	Part Number	BW (MHz)	IL (Typ) (dB)	Power (dBm)	Package Size (mm)	Temp (°C)	MSL
20	Duplexer	Unbalance	SD-08470X-CXX	30	TBD	TBD	TBD	TBD	3
28	Tx - A	Balance	SF-071802-C21	30	2.7	10	1.4 x 1.1	-30 - +85	3
28	Tx - A	Unbalance	SF-071803-C21	30	2.1	15	1.4 x 1.1	-10 - +85	3
28	Tx - B	Balance	SF-073303-C21	30	2.6	10	1.4 x 1.1	-30 - +85	3
28	Tx - Full	Unbalance	SF-072505-C28	45	2.3	10	1.4 x 1.1	-30 - +85	3
28	Rx - A	Balance	SF-077302-C21	30	1.9	10	1.4 x 1.1	-30 - +85	3
28	Rx - B	Balance	SF-078802-C21	30	2.1	10	1.4 x 1.1	-30 - +85	3
28	Rx - Full	Unbalance	SF-078004-C14	45	2.0	10	1.1 x 0.9	-40 - +85	3
34	Rx	Unbalance	SF-201702-C24	15	1.4	27	1.4 x 1.1	-30 - +85	3
34	TRx	Unbalance	SF-201703-C14	15	1.6	27	1.1 x 0.9	-20 - +85	3
38	Rx	Unbalance	SF-259503-C23	50	1.8	28	1.4 x 1.1	-30 - +85	3
38	Tx	Unbalance	SF-259504-C12	50	1.6	28	1.1 x 0.9	-30 - +85	3
38	Rx	Unbalance	SF-259505-C12	50	1.6	10	1.1 x 0.9	-30 - +85	3
38	Rx	Balance	SF-259506-C12	50	3.4	10	1.1 x 0.9	-30 - +85	3
39	Rx	Unbalance	SF-190006-C24	40	1.6	28	1.4 x 1.1	-30 - +85	3
39	Tx	Unbalance	SF-190007-C14	40	1.9	28	1.1 x 0.9	-30 - +85	3
39	Rx	Unbalance	SF-190008-C14	40	1.9	15	1.1 x 0.9	-30 - +85	3

Products with specific requirements are available upon request.

Please contact us for detailed specifications.

Here drawing of one CSP package, others upon request available



Single to Balanced Type

Single Ended Type

Pin Description	
<b>A</b>	In
<b>C, D</b>	Out
<b>B, E</b>	Ground

Pin Description	
<b>A</b>	In
<b>D</b>	Out
<b>B, C, E</b>	Ground