



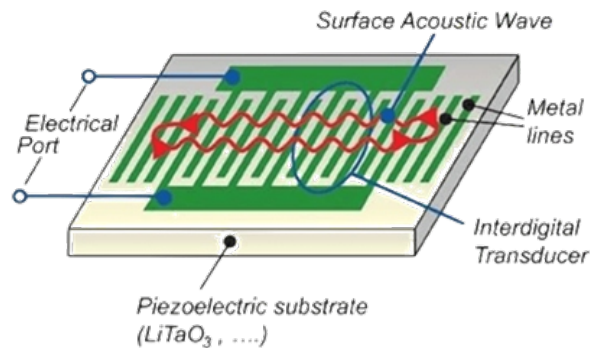
SAW Filter Selection Guide

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INTRODUCTION

































The Surface Acoustic Wave (SAW) filter is a passive band-pass filter made by using the piezoelectric effect and the physical characteristics of surface acoustic wave propagation. Its role is to filter and delay electrical signals. It has the advantages of small size, stable performance, strong overload capacity, low phase distortion, and no need to adjust, so it is used in televisions, video recorders, wireless data transmission systems and other fields.





























































FEATURES

1. The frequency response is flat; the ripple is around ± 0.3 - ± 0.5 dB typ.
2. The SAW Filter has good rectangular coefficient.
3. Although the insertion loss is as high as 30-35dB some time, an amplifier can be used to compensate for the level loss.
4. Excellent frequency selectivity (the selectable frequency range is 30MHz ~ 3.6GHz with relative bandwidth 0.02% - 60%).
5. High reliability and excellent consistency.
6. The SAW Filter body is small & light and its volume and weight are about 1/40 and 1/30 of the ceramic dielectric filter and can realize a variety of complex functions. SMD and DIP packages both are available.








Part Number	Center Frequency (MHZ)	Passband (MHZ)	Size (mm)	Band	Datasheet
STCE071-0634SA	634.5	617.34-651.66	1.80x1.40x0.65	B71 Unbalanced	
STCH064-0722SA	722.5	717-728	1.1x0.9x0.65	B29 Unbalanced	
STCH028-0737SA	737.5	729-746	1.1x0.9x0.65	B12 Unbalanced	
STCH015-0740SA	740	734.25-745.75	1.1x0.9x0.65	B17 Unbalanced	
STCH069-0742SA	742.5	729-756	1.1x0.9x0.65	B12+B13+B17 Unbalanced	
STCH046-0748SA	748.5	729-768	1.1x0.9x0.65	B67 Unbalanced	
STCH023-0751SA	751	746.25-755.75	1.1x0.9x0.65	B13 Unbalanced	
STCH040-0763SA	763	758-768	1.1x0.9x0.65	B14 Unbalanced	
STCH021-0773SA	773	758.25-787.75	1.1x0.9x0.65	B28A Unbalanced	
STCH026-0780SA	780.5	758.25-802.75	1.1x0.9x0.65	B28 Unbalanced	
STCH077-0780SA	780.5	758.25-802.75	1.1x0.9x0.65	B28 Unbalanced	
STCH022-0788SA	788	773.25-802.75	1.1x0.9x0.65	B28B Unbalanced	
STCH016-0806SA	806	791-821	1.1x0.9x0.65	B20 Unbalanced	
STCG018-0842SA	842.5	840-845	1.4x1.1x0.7	/	
STCH036-0845SA	845.75	840.5-851	1.1x0.9x0.65	Unbalanced	
STCG041-0865SA	865	860-870	1.4x1.1x0.7	B41 Unbalanced(194M)	
STCG031-0866SA	866.5	863.00-870.00	1.4x1.1x0.7	/	
STCG004-0869SA	869	868-870	1.4x1.1x0.7	/	
STCG019-0869SA	869.5	868-870	1.4x1.1x0.7	/	
STCH052-0876SA	876.5	859-894	1.1x0.9x0.65	B26 Unbalanced	
STCH005-0881SA	881	869-894	1.1x0.9x0.65	B5 Unbalanced	
STCG015-0881SD	881.5	869-894	1.4x1.1x0.7	Communication	
STCH007-0881SC	881.5	869-894	1.1x0.9x0.65	B5 Balanced	
STCH020-0881SA	881.5	869-894	1.1x0.9x0.65	B19 Unbalanced	
STCG042-0911SA	911	906-916	1.4x1.1x0.7	/	
STCG027-0911SA	911.5	898-925	1.4x1.1x0.7	/	
STCG008-0913SA	913	908.5-917.5	1.4x1.1x0.7	GPS	
STCG032-0915SA	915	902-928	1.4x1.1x0.7	/	
STCG043-0921SA	921	915-927	1.4x1.1x0.7	/	
STCH014-0942SA	942.5	925-960	1.1x0.9x0.65	B8 Unbalanced	
STCH018-0942SC	942.5	925-960	1.1x0.9x0.65	B8 Balanced	
STCH074-1080SA	1080	1050-1110	1.1x0.9x0.65	Unbalanced	

Part Number	Center Frequency (MHZ)	Passband (MHZ)	Size (mm)	Band	Datasheet
STCG044-1176SA	1176.45	1166.22-1186.68	1.4x1.1x0.7	GPS Unbalanced	
STCG037-1176SA	1176.45	1163.95-1188.95	1.4x1.1x0.7	/	
STCH059-1176SA	1176.45	1166.22-1186.68	1.1x0.9x0.65	GPS L5	
STCG038-1227SA	1227.6	1215.1-1240.1	1.4x1.1x0.7	/	
STCH025-1485SA	1485.9	1475.9-1495.9	1.1x0.9x0.65	B11 Unbalanced	
STCH073-1503SA	1503	1495.9-1510.9	1.1x0.9x0.65	B21 Unbalanced	
STCG002-1568SA	1568	1561-1576.42	1.4x1.1x0.7	Beidou/GPS	
STCG013-1575SA	1575.42	1575.42±1.2	1.4x1.1x0.7	Communication	
STCG009-1575SA	1575.42	1574.42-1576.42	1.4x1.1x0.7	GPS(Low insertion loss, high rejection)	
STCG003-1575SA	1575.42	1574.42-1576.42	1.4x1.1x0.7	GPS (Low insertion loss)	
STCG001-1575SA	1575.42	1574.42-1576.42	1.4x1.1x0.7	GPS Filter	
STCE009-1580SA	1580	1559.05-1605.89	1.80x1.40x0.65	GPS	
STCG010-1580SA	1580	1559.09-1605.89	1.4x1.1x0.7	Beidou/GPS/GLONASS	
STCH003-1580SA	1580	1559.09-1605.89	1.1x0.9x0.65	Beidou/GPS/GLONASS	
STCH045-1580SA	1580	1559.10-1605.89	1.1x0.9x0.65	Beidou/GPS/GLONASS	
STCG036-1582SA	1582	1559.05-1563.15	1.4x1.1x0.7	GPS/GLONASS	
STCG007-1588SA	1588.65	1571.42-1605.89	1.4x1.1x0.7	GPS/GLONASS	
STCG011-1795SA	1795	1785-1805	1.4x1.1x0.7	Communication	
STCG040-1842SA	1842	1805-1880	1.4x1.1x0.7	B3 Unbalanced	
STCH012-1842SA	1842	1805-1880	1.1x0.9x0.65	B3 Unbalanced	
STCH006-1900SA	1900	1880-1920	1.1x0.9x0.65	B39 Unbalanced	
STCH011-1960SA	1960	1930.0-1990.0	1.1x0.9x0.65	B2 Unbalanced	
STCH051-1962SA	1962.5	1930.6-1994.4	1.1x0.9x0.65	B25 Unbalanced	
STCH010-2140SA	2140	2110-2170	1.1x0.9x0.65	B1 Unbalanced	
STCH017-2140SC	2140	2110-2170	1.1x0.9x0.65	B1 Balanced	
STCH019-2140SA	2140	2110-2170	1.1x0.9x0.65	B4 Unbalanced	
STCH042-2155SA	2155	2110-2200	1.1x0.9x0.65	B66 Unbalanced	
STCG023-2350SA	2350	2300-2400	1.4x1.1x0.7	B40 Unbalanced	
STCH004-2350SA	2350	2300-2400	1.1x0.9x0.65	B40 Unbalanced	
STCH030-2350SA	2350	2300-2400	1.1x0.9x0.60	B40 Unbalanced	
STCH047-2350SA	2350	2300-2400	1.1x0.9x0.65	B40 Unbalanced	
STCH072-2350SA	2350	2300-2400	1.1x0.9x0.65	B40 Unbalanced	

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STCH048-2355SA	2355	2350-2360	1.1x0.9x0.65	B30 Unbalanced	
STCE010-2442SA	2442	2402-2482	1.80x1.40x0.65	WiFi	
STCG052-2442SA	2442	2401-2483	1.4x1.1x0.7	ISM Unbalanced	
STCG020-2442SA	2442	2403-2471	1.4x1.1x0.7	2.4G WIFI	
STCG012-2442SA	2442	2401-2483	1.4x1.1x0.7	2.4G WIFI	
STCH024-2442SA	2442	2403-2481	1.1x0.9x0.65	2.4G WIFI	
STCH043-2442SA	2442	2401-2483	1.1x0.9x0.65	WIFI Unbalanced	
STCH054-2442SA	2442	2403-2481	1.1x0.9x0.65	WIFI Unbalanced	
STCH066-2442SA	2442	2401.5-2480.5	1.1x0.9x0.65	2.4G Bluetooth	
STCH076-2442SA	2442	2402.5-2481.5	1.1x0.9x0.65	2.4G WIFI	
STCH112-2442SA	2442	2402-2480	1.1x0.9x0.65	Unbalanced	
STCH034-2535SA	2535	2500-2570	1.1x0.9x0.65	B7 Unbalanced	
STCH009-2590SA	2590	2535-2545	1.1x0.9x0.65	B41 Unbalanced(120M)	
STCH037-2590SA	2590	2535-2655	1.1x0.9x0.65	B41 Unbalanced	
STCG050-2593SA	2593	2496-2690	1.4x1.1x0.65	B41 Unbalanced(194M)	
STCG046-2593SA	2593	2496-2690	1.4x1.1x0.7	B41 Unbalanced(194M)	
STCH060-2593SA	2593	2496-2690	1.1x0.9x0.65	B41 Unbalanced(194M)	
STCG026-2595SA	2595	2535-2655	1.4x1.1x0.7	B41 Unbalanced(120M)	
STCH008-2595SA	2595	2570-2620	1.1x0.9x0.65	B38 Unbalanced	
STCH027-2017SA	2595	2010-2025	1.1x0.9x0.65	B34 Unbalanced	
STCG024-2600SA	2600	2545-2655	1.4x1.1x0.7	B41 Unbalanced(110M)	
STCH056-2600SA	2600	2535-2655	1.1x0.9x0.65	B41 Unbalanced	
STCH065-2605SA	2605	2535-2675	1.1x0.9x0.65	B41 Unbalanced(140M)	
STCH075-2605SA	2605	2535-2675	1.1x0.9x0.65	B41 Unbalanced(140M)	
STCH013-2655SA	2655	2620-2690	1.1x0.9x0.65	Unbalanced	
STCH035-2655SA	2655	2620-2690	1.1x0.9x0.65	B7 Unbalanced	



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