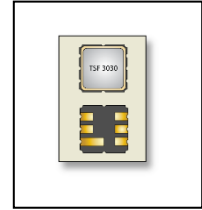


# RF Saw Filters



## TSF 3030 (3.0 x 3.0 x 1.4 mm)



Part Number	Center Frequency	Pass Band	Insertion Loss	Part Number	Center Frequency	Pass Band	Insertion Loss
	(MHz)	(MHz)	(dB Max)		(MHz)	(MHz)	(dB Max)
TSF1725A	289	1	2.4	TSF1820A	434.7	1.07	2.9
TSF1907A	311	1	2.8	TSF1808A	440	20	3.5
TSF1564A	312	0.36	3.4	TSF0709A	448	3	4
TSF1588A	314.35	0.6	2.5	TSF1258A	455	5	3.2
TSF0657A	315	0.6	2.5	TSF1406A	460	20	3.5
TSF0657C	315	0.6	2.5	TSF1478A	462.5	3	3.2
TSF1794A	315	1.06	2.7	TSF1257A	465	5	4
TSF1671A	338.5	0.6	2.5	TSF1685A	469.65	0.3	4.5
TSF1951A	399.8	1	2.4	TSF1407A	495	10	3.5
TSF0971A	400	0.25	4	TSF0506A	500	6	4.7
TSF1347A	404	3	2.3	TSF1908A	503	6	4.7
TSF1663A	413	2	3	TSF1446A	607	18	3
TSF1463A	418	4	3.5	TSF0945A	622.08	1	4.5
TSF1638A	421.9	2	3	TSF1050A	670	20	2.2
TSF1603A	422.2	0.725	2.5	TSF0616A	675	25	2.2
TSF1105A	423	2	3	TSF0767A	675	25	3.3
TSF1562A	423	2	3	TSF0617A	700	25	2.2
TSF1664A	423.75	4.5	3.5	TSF1049A	702	20	2.2
TSF1593A	426	1	3.5	TSF1089A	707	18	3
TSF1651A	428	16	3.5	TSF0915A	737	18	3.5
TSF1589A	428	4	3.5	TSF1915A	742.5	31	4
TSF1484A	428.55	0.4	3	TSF1243A	763	10	3
TSF1473A	433	20	2.8	TSF0716A	770	20	3
TSF1565A	433.92	0.3	3.4	TSF0557A	776.5	5.5	4.2
TSF0322A	433.92	0.95	4	TSF1239A	781.5	13	4
TSF0649A	433.92	1.71	2.7	TSF1609A	781.5	10	3.4
TSF0944A	433.92	1.6	2.9	TSF1605A	782	10	3
TSF1728A	433.92	1.6	2.9	TSF1091A	787	22	3

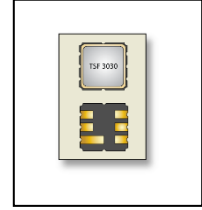
**See Following Page for Package Drawing**



# RF Saw Filters



## TSF 3030 (3.0 x 3.0 x 1.4 mm)



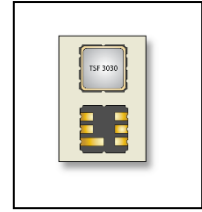
Part Number	Center Frequency	Pass Band	Insertion Loss	Part Number	Center Frequency	Pass Band	Insertion Loss
	(MHz)	(MHz)	(dB Max)		(MHz)	(MHz)	(dB Max)
TSF1244A	793	10	2.5	TSF0462A	866	8	4.5
TSF1409A	793	10	2.5	TSF0801A	866	7	3
TSF0415A	800	20	3.8	TSF1480A	866	2	3.9
TSF0740A	800	20	3.8	TSF0547A	867.5	15	3.5
TSF1071A	806	30	4.5	TSF0659A	868.3	1.5	4.2
TSF0424A	810	5	5	TSF0296A	869	2	4
TSF0478A	810	10	4.3	TSF1404A	869	2	3
TSF0438A	810	17	3.8	TSF0977A	869	2	3.5
TSF1585A	810	10	4.3	TSF1912A	869.225	1.85	5
TSF0660A	814	32	4.2	TSF0976A	872.5	15	3.5
TSF1082A	815	20	3.5	TSF1019A	876	8	4.5
TSF0430A	815.5	19	3.5	TSF1097A	879	30	4
TSF0330A	821	10	3.5	TSF1375A	880	60	2.5
TSF0330B	821	10	3.5	TSF0233A	881.5	25	3
TSF0558A	821.5	5.5	4.2	TSF881GG	881.5	25	3.5
TSF0981A	827.5	15	3.5	TSF0626A	881.5	30	4
TSF1494A	831.5	35	4.2	TSF0166A	881.5	25	3
TSF836GG	836.5	25	3.5	TSF1020A	881.5	25	3.5
TSF0169A	836.5	25	3	TSF1427A	895	2	3.2
TSF0609A	836.5	30	4	TSF0627A	895.5	39	2.7
TSF0968A	836.5	25	3.1	TSF0494A	897.5	35	3
TSF1652A	836.5	4	4	TSF1003A	897.5	35	3
TSF1072A	847	30	4.5	TSF1083A	899	8	3.5
TSF1416A	858.5	37	4	TSF0143A	902.5	25	3.5
TSF0328A	860.5	19	3	TSF0747A	902.5	25	3.5
TSF1284A	862	16	2.8	TSF0992A	902.5	25	3.3
TSF1285A	862	16	2	TSF0562A	906	36	3.2
TSF0416A	864	4	5.5	TSF0563A	906	36	4.1
TSF1687A	866	7	3.5	TSF1042A	915	26	3.5
TSF0331A	866	12	3.5	TSF1042B	915	26	3.5



# RF Saw Filters



**TSF 3030**  
(3.0 x 3.0 x 1.4 mm)



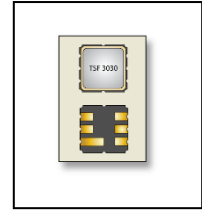
Part Number	Center Frequency	Pass Band	Insertion Loss	Part Number	Center Frequency	Pass Band	Insertion Loss
	(MHz)	(MHz)	(dB Max)		(MHz)	(MHz)	(dB Max)
TSF0495A	915	26	3.5	TSF942FG	942.5	35	3.5
TSF1561A	915	26	4	TSF942GG	942.5	35	3
TSF0829A	915	10	4	TSF0394B	942.5	35	4
TSF1460A	915	26	3.5	TSF0189A	942.5	35	3.5
TSF1719A	915	26	3.5	TSF0373A	947.5	25	4.3
TSF1456A	915.5	26	3	TSF947FG	947.5	25	3
TSF0344A	916.45	4	3.5	TSF947GG	947.5	25	3.5
TSF0673A	916.45	1.5	5	TSF0361A	947.5	25	3
TSF1727A	916.45	4	3.5	TSF0748A	947.5	25	3.5
TSF1628A	918.6	3.8	4.2	TSF0991A	947.5	25	3.3
TSF1471A	918.6	3.6	7	TSF1458A	954.5	1	3.9
TSF0666A	920	40	4.8	TSF0564A	960	36	4
TSF1164A	921.5	7	3.5	TSF0729A	974	40	5
TSF0775A	922.5	5	4.2	TSF0244A	976	32	3.5
TSF0644A	923.5	9	3.5	TSF1410A	978	22	3.5
TSF0754A	925	6	4.2	TSF0689A	978	5	3.5
TSF1720A	925.2	5.8	3.5	TSF0674A	996	8	4
TSF0254A	930	20	3	TSF0820A	996.34	30	1.9
TSF1286A	938	6	3.7	TSF0444A	999	40	4.8
TSF1287A	938	6	2	TSF1411A	999	22	3.5
TSF0390A	940.5	39	4.3	TSF0477A	1013	1	4.5
TSF0460A	940.5	39	4.4	TSF1014A	1056	30	3.5
TSF0546A	940.5	39	4.5	TSF1412A	1059	16	3
TSF0327A	941.5	35	4	TSF1477A	1068	40	5
TSF0230A	942.5	35	3.8	TSF0696A	1076.06	40	5



## RF Saw Filters



**TSF 3030**  
(3.0 x 3.0 x 1.4 mm)



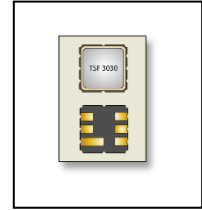
Part Number	Center Frequency	Pass Band	Insertion Loss	Part Number	Center Frequency	Pass Band	Insertion Loss
	(MHz)	(MHz)	(dB Max)		(MHz)	(MHz)	(dB Max)
TSF0227A	1086	10	5	TSF0490A	1228	20	3.9
TSF0404A	1086	10	4.5	TSF0509A	1228	20	4.4
TSF0974A	1120	8	5	TSF1680A	1232	10	5
TSF0267A	1120	40	4.5	TSF0925A	1232	6	5
TSF1413A	1128	34	4	TSF0836B	1237	40	3
TSF0314A	1150	16	5	TSF0871A	1237.5	24	4
TSF0620A	1150	32	3	TSF1667A	1238	20	4
TSF1414A	1161	34	4	TSF0260A	1240	20	5.8
TSF0675A	1176.45	20	4.1	TSF0824A	1250	96	7
TSF0730A	1178.12	40	5	TSF0862A	1268.52	20.46	3.2
TSF1104A	1199	108	5.5	TSF0726A	1280.18	40	5
TSF1686A	1200	80	7	TSF1443A	1284	40	5
TSF0582A	1200	40	4	TSF0298A	1290	18	4.5
TSF1521A	1207	20	4	TSF0840A	1300	8	4.5
TSF0888A	1210	60	5	TSF1060A	1315	30	3
TSF1076A	1210	60	6	TSF0932A	1316	45	5
TSF0364A	1216	8	5.5	TSF0933A	1316	50	5
TSF1597A	1216.8	1.6	4.5	TSF0929A	1320	2	4.6
TSF0355A	1216.88	8	5	TSF0566A	1330	8	4.6
TSF0269A	1220	8	4.8	TSF1387A	1330	80	7
TSF0292A	1220	28	5.7	TSF0375A	1330	8	4.5
TSF0304A	1220	8	5.3	TSF0332A	1350	15	4.5
TSF0786A	1220	10	5.3	TSF0921A	1370	40	4.2
TSF1617A	1224	108	5.5	TSF1623A	1382.24	46	5
TSF1227BB	1227	20	2.2	TSF0697A	1382.24	40	5

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# RF Saw Filters



## TSF 3030 (3.0 x 3.0 x 1.4 mm)



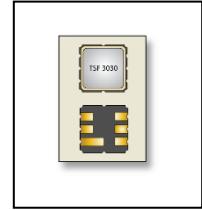
Part Number	Center Frequency	Pass Band	Insertion Loss	Part Number	Center Frequency	Pass Band	Insertion Loss
	(MHz)	(MHz)	(dB Max)		(MHz)	(MHz)	(dB Max)
TSF0718A	1397.5	5	3.6	TSF1166A	1572.5	30	3
TSF1444A	1400	40	5	TSF1153A	1575	20	4
TSF1077A	1420	60	5	TSF1021A	1575	20	4.5
TSF1654A	1435	50	5	TSF0449A	1575.42	2.4	2.8
TSF0930A	1440	2	4.6	TSF1575IG	1575.42	2.4	2
TSF1048A	1457	5	4	TSF1575GG	1575.42	2	3.5
TSF1632A	1457	10	4	TSF0440A	1575.42	2	4
TSF0719A	1461.5	5	4	TSF0549A	1575.5	13	5
TSF1327A	1472	40	2.7	TSF1621A	1579.5	57	3.8
TSF0567A	1472	40	5	TSF1553A	1581	42	4
TSF1624A	1484.3	46	5	TSF1658A	1582.4	46.61	2.2
TSF0698A	1484.3	40	5	TSF1932A	1583	44	2.8
TSF0720A	1486.5	5	4	TSF1785A	1583	46.79	2.1
TSF1047A	1489	5	4	TSF1625A	1586.36	46	5
TSF0522A	1500	20	4.2	TSF0699A	1586.36	40	5
TSF1445A	1516	40	5	TSF0638A	1590	59	4
TSF1541A	1530	35	3	TSF0676A	1592.5	43	3.5
TSF1926A	1542	34	4.5	TSF0550A	1601	16	5
TSF1405A	1542.5	35	4.2	TSF0528A	1615	20	4.6
TSF1045A	1550	60	5	TSF1495A	1615.68	8.16	4
TSF0931A	1560	2	4.6	TSF1101A	1620.75	11.5	2.8
TSF1520A	1561	20	4	TSF1496A	1621.25	10.5	2.5
TSF0967A	1561	21	4	TSF1307A	1642.5	35	3.5
TSF1584A	1568	18.322	2.2	TSF1947A	1645	20	3.5
TSF1703A	1570	80	4.2	TSF1453A	1649.5	42	5

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# RF Saw Filters



## TSF 3030 (3.0 x 3.0 x 1.4 mm)



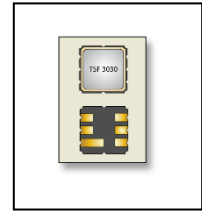
Part Number	Center Frequency	Pass Band	Insertion Loss	Part Number	Center Frequency	Pass Band	Insertion Loss
	(MHz)	(MHz)	(dB Max)		(MHz)	(MHz)	(dB Max)
TSF1078A	1680	60	5	TSF0363A	1842.5	75	3.8
TSF1583A	1680	15	5.5	TSF0703A	1855	30	3
TSF1579A	1680	40	5	TSF1540A	1860	35	4
TSF0891A	1680	60	5	TSF1475A	1864	40	5
TSF0872A	1687.5	24	4	TSF0604A	1870	60	4
TSF0727A	1688.42	40	5	TSF0613A	1880	65	4
TSF1125A	1690	17.6	4.5	TSF1074A	1882.5	65	3.5
TSF0682A	1720	24	3	TSF0629A	1885	70	3.8
TSF1669A	1725	20	3	TSF1046A	1892	60	5
TSF0755A	1732.5	45	3.5	TSF1240A	1900	40	3
TSF1488A	1737.5	55	4	TSF1093A	1900	40	3.5
TSF1611A	1745	20	3	TSF1491A	1925	10	3
TSF0391A	1747.5	75	4	TSF0742A	1932.5	15	3
TSF1482A	1748	40	5	TSF0652A	1932.5	15	4
TSF0702A	1765	30	3	TSF0927A	1942	50	5
TSF0667A	1785	60	4	TSF1590A	1950	20	3.5
TSF1707A	1790.48	46	5	TSF0175A	1960	60	4
TSF0728A	1790.48	40	5	TSF1075A	1962.5	65	3.5
TSF0798A	1795	15	3.5	TSF0630A	1965	70	3.8
TSF1668A	1820	20	3	TSF0605A	1970	60	4
TSF1905A	1820	60	4	TSF0827A	1970	20	3.5
TSF1487A	1832.5	55	3.8	TSF0711A	1972.5	15	4
TSF1415A	1836.5	2	3	TSF1476A	1980	40	5
TSF1612A	1840	20	3	TSF1550A	1994.6	46	5
TSF1842FG	1842.5	75	3.8	TSF0885A	1994.6	40	5

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# RF Saw Filters



## TSF 3030 (3.0 x 3.0 x 1.4 mm)



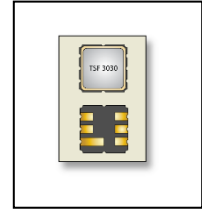
Part Number	Center Frequency	Pass Band	Insertion Loss	Part Number	Center Frequency	Pass Band	Insertion Loss
	(MHz)	(MHz)	(dB Max)		(MHz)	(MHz)	(dB Max)
TSF0724A	2017	19	4	TSF1282A	2332.5	25	3.6
TSF1238A	2017.5	15	4.2	TSF0273A	2332.5	25	4
TSF1039A	2017.5	15	4	TSF1377A	2338.75	12.5	3
TSF1279A	2040	60	5	TSF0515A	2345	27	4
TSF0768A	2045	15	3	TSF0581A	2345	90	4
TSF0879A	2067	60	6	TSF0819A	2375	30	2.5
TSF0741A	2067.5	84	4	TSF1073A	2375	100	6
TSF0886A	2096.6	40	5	TSF0532A	2441.8	83.5	5
TSF1490A	2115	10	4	TSF0222A	2442	55	6
TSF0653A	2120	20	4	TSF1059A	2477	47	4
TSF0228A	2122.5	35	4	TSF1442A	2492	5	2
TSF0743A	2122.5	15	3	TSF1683A	2530	20	3
TSF0756A	2132.5	45	3.7	TSF0795A	2535	70	3.6
TSF1587A	2140	20	3.5	TSF1137A	2544.5	97	4
TSF0174G	2140	60	3.5	TSF1539A	2550	35	3.2
TSF1433A	2140	100	5	TSF0759A	2580	30	3.5
TSF0229A	2157.5	35	4	TSF0744A	2592.5	27	4
TSF0465A	2160	60	3.5	TSF1391A	2595	50	3.8
TSF0733A	2160	20	3.5	TSF0760A	2610	30	3.5
TSF0712A	2162.5	15	4	TSF1162A	2636.5	97	3.6
TSF1919A	2185	30	3.5	TSF1136A	2641.5	97	4
TSF0880A	2245	60	6	TSF1684A	2650	20	3
TSF0700A	2250	100	4.5	TSF0545A	2650	70	3.5
TSF0803A	2313.5	27	3	TSF1232A	2655	70	3.6
TSF0830A	2313.5	100	4	TSF0887A	2657	66	3.6
TSF0843A	2330	60	3.2	TSF0835A	2665	70	3.6
TSF1657A	2332.5	25	1.2	TSF0761A	2675	30	3.5

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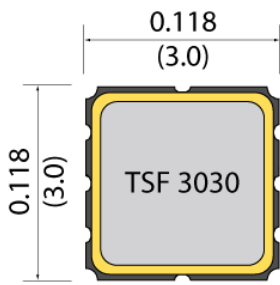
# RF Saw Filters



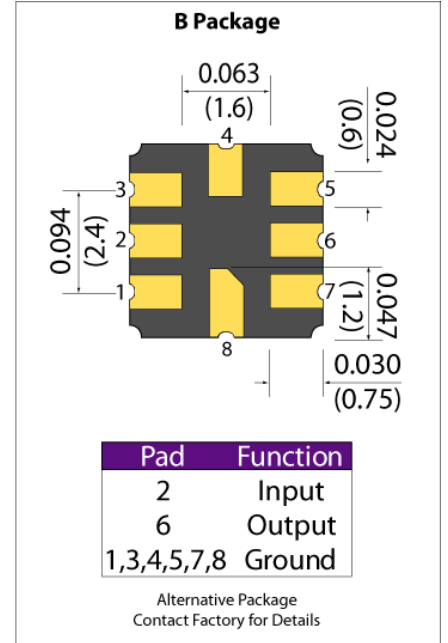
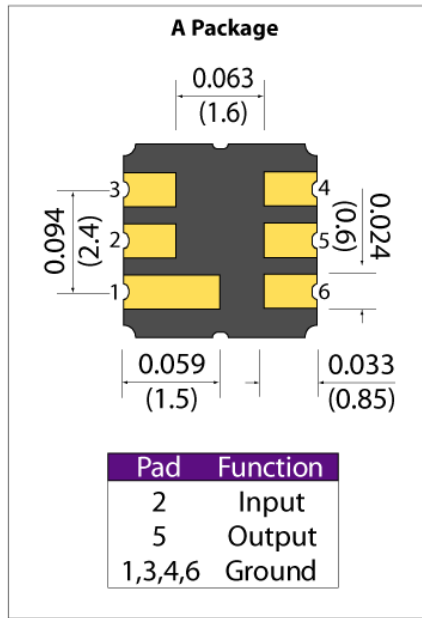
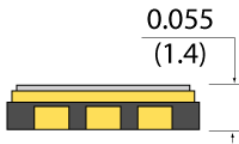
**TSF 3030**  
(3.0 x 3.0 x 1.4 mm)



## TSF 3030 Package



Measurements: Inches (mm)  
Att'l Tolerance:  $\pm 0.008$  ( $\pm 0.2$ )



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