

# SAW FILTERS

## RF FILTERS

RoHS Complaint Standard

Part Number	Center Frequency [MHz]	Passband Width [MHz]	Insert loss [dB]		Impedance [ohms]	Package
			Typ	Max		
TSF139B	139	±4.00	5.8	6.5	210	TSF1205, TSF5050
TSF147B	147	±4.00	5.8	6.5	210	TSF1205, TSF5050
TSF149C	149	±4.00	5	-	50	TSF7050
TSF150B	150	±4.00	-	6.5	210	TSF1205, TSF5050
TSF155B	155	±4.00	6.5	-	210	TSF1205, TSF5050
TSF163B	163	±4.00	6.5	-	210	TSF1205, TSF5050
TSF167B	167	±4.00	6.5	-	210	TSF1205, TSF5050
TSF171B	171	±4.00	6.5	-	210	TSF1205, TSF5050

Part Number	Center Frequency [MHz]	Passband Width [MHz]	Insert loss [dB]		Stopband Rejection [dB]	Impedance [ohms]	Package
			Typ	Max			
TSF210A	210.70	±3.00	3.50	42.00	150	TSF1205, TSF5050	
TSF218A	218.50	±3.00	4.50	53.00	150	TSF1205, TSF5050	
TSF220A	220.00	±3.00	4.50	53.00	150	TSF1205, TSF5050	
TSF224A	224.00	±2.00	4.50	53.00	150	TSF1205, TSF5050	
TSF280A	280.00	±4.00	4.50	53.00	150	TSF1205, TSF5050	
TSF285A	285.00	±3.00	4.50	53.00	150	TSF1205, TSF5050	
TSF311A	311.00	±1.65	3.50	53.00	150	TSF1205, TSF5050	
TSF315A	315.00	±2.00	4.50	53.00	150	TSF1205, TSF5050	
TSF320A	320.00	±1.65	4.50	53.00	150	TSF1205, TSF5050	
TSF322A	322.00	±1.65	3.50	53.00	150	TSF1205, TSF5050	
TSF326A	326.95	±1.65	2.50	53.00	150	TSF1205, TSF5050	
TSF410A	410.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838	
TSF412A	412.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838	
TSF418A	418.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838	
TSF420D	420.00	±5.00	4.50	53.00	50	TSF1205, TSF5050, TSF3838	
TSF421E	421.50	±7.50	3.80	53.00	50//10nH	TSF1205, TSF5050, TSF3838	
TSF422D	422.00	±7.50	4.00	53.00	50	TSF1205, TSF5050, TSF3838	
TSF425A	425.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838	
TSF428C	428.00	±3.00	3.50	50.00	50	TSF1205, TSF5050, TSF3838	
TSF434A	433.92	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838	
TSF434C	434.00	±3.00	3.80	55.00	50	TSF1205, TSF5050, TSF3838	
TSF435C	435.00	±3.00	4.50	55.00	50	TSF1205, TSF5050, TSF3838	
TSF442A	442.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838	
TSF447A	447.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838	
TSF448A	448.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838	
TSF448S	448.00	±3.00	3.00	53.00	150	TSF1205, TSF5050, TSF3838, TSF3030	
TSF450C	450.00	±1.00	3.50	55.00	50	TSF1205, TSF5050, TSF3838	
TSF450A	450.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838	

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RoHS Complaint Standard

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Part Number	Center Frequency [MHz]	Passband Width [MHz]	Insert loss [dB] Typ	Stopband Rejection [dB]	Impedance [ohms]	Package
TSF454A	454.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF458A	458.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF462A	462.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF465A	465.00	±3.00	3.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF465C	465.00	±3.00	3.80	55.00	50	TSF1205, TSF5050, TSF3838
TSF465D	465.00	±5.00	4.50	53.00	50	TSF1205, TSF5050, TSF3838
TSF468D	468.00	±5.00	4.50	53.00	50	TSF1205, TSF5050, TSF3838
TSF470A	470.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF473B	473.00	±4.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF474A	474.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF480A	480.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF498D	498.00	±7.50	3.50	53.00	50	TSF1205, TSF5050, TSF3838
TSF504B	504.00	±4.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF510B	510.00	±4.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF511A	511.00	±2.00	4.50	53.00	150	TSF1205, TSF5050, TSF3838
TSF622A	622.08	±2.00	4.50	53.00	50//18nH	TSF1205, TSF5050, TSF3838
TSF741A	740.00	±3.00	3.50	53.00	50//10nH	TSF1205, TSF5050, TSF3838
TSF746A	746.00	±3.00	3.50	45.00	50//10nH	TSF1205, TSF5050, TSF3838
TSF861D	861	±10.00	4.5	50	50//4.7nH	TSF1205, TSF5050, TSF3838
TSF868A	868	±2.00	4	45	50//10nH	TSF1205, TSF5050, TSF3838
TSF899M	899	±3.00	5	50	50	TSF1205, TSF5050, TSF3838
TSF903M	903	±1.00	4.5	45	50	TSF1205, TSF5050, TSF3838
TSF912A	912	±2.00	3.5	45	50//10nH	TSF1205, TSF5050, TSF3838
TSF915A	915	±25.00	4	45	50	TSF1205, TSF5050, TSF3838
TSF916A	916.5	±1.20	3.5	45	50//10nH	TSF1205, TSF5050, TSF3838
TSF924A	924	±2.00	4.5	45	50//10nH	TSF1205, TSF5050, TSF3838, TSF3030
TSF927M	927	±1.00	4.5	45	50	TSF1205, TSF5050, TSF3838
TSF930A	930.5	±2.00	4.5	45	50//10nH	TSF1205, TSF5050, TSF3838, TSF3030
TSF930C	930.5	±3.00	4	45	50	TSF1205, TSF5050, TSF3838, TSF3030
TSF930D	930.5	±4.00	4	45	50//10nH	TSF1205, TSF5050, TSF3838, TSF3030
TSF938C	938	±3.00	4	45	50	TSF1205, TSF5050, TSF3838, TSF3030
TSF942W	942.5	±17.50	3.8	55	50	TSF1205, TSF5050, TSF3838, TSF3030
TSF959C	959.5	±3.00	4	45	50	TSF1205, TSF5050, TSF3838, TSF3030
TSF1090C	1090	±7.00	4	50	50	TSF1205, TSF5050, TSF3838, TSF3030

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Part Number	Center Frequency [MHz]	Bandwidth [MHz]				Insertion Loss [dB]		Ripple [dB]	Absolute Delay [usec]	Ultimate Rejection [dB]	Package
		3dB		40dB		Typ	Max	Max	Typ	Min	
		Min	Typ	Typ	Max						
TSF310123	44	5.6	5.71	-	-	23	24.5	0.8	3.3	50	TSF3512
TSF321411	53	4.5	4.8	6.54	6.8	22.5	24	0.8	2.1	50	TSF2012
TSF311203	59.3	11	11.25	12.35	12.55	24.5	26	1	2.9	50	TSF3512
TSF321291	60	4	4.28	6.4	6.7	18	-	1	1.8	50	TSF2012
TSF311651	60	6.9	7.05	8.35	8.5	22.5	24	0.8	2.4	50	TSF2012
TSF311293	60	9.4	9.45	10.65	10.85	25	26.5	1	3	50	TSF3512
TSF311561	60	11.95	12.05	13.45	13.6	23.5	25	1	2.2	50	TSF2012
TSF321431	62.5	20.45	20.55	-	-	27.5	28.5	1	2.08	50	TSF2012
TSF321543	62.6	4	4.2	4.8	5	22	-	1	4.5	50	TSF3512
TSF311213	63.3	3.8	3.85	4.9	5.1	20	22	1	3	50	TSF3512
TSF321653	70	0.2	0.22	0.65	0.8	17.5	-	1	4.3	50	TSF3512
TSF321783	70	0.2	0.22	0.68	0.8	17	18.5	0.7	4	50	TSF3512
TSF311463	70	0.25	0.3	0.9	1	22	23.5	1	3.7	50	TSF3512
TSF321262	70	0.75	0.85	1.68	2	20.5	22	0.8	3.5	50	TSF2712
TSF311161	70	1.2	1.24	2.39	2.5	20.5	22.5	0.8	2.5	50	TSF2012
TSF321393	70	1.2	1.23	2.1	2.2	23.5	-	0.7	3.5	50	TSF3512
TSF321604	70	1.2	1.22	-	-	22.5	24	0.8	4.9	50	TSF3825
TSF311802	70	1.25	1.3	2.05	2.15	24	25	0.8	3.2	50	TSF2712
TSF321503	70	1.4	1.52	2.16	2.3	21.4	-	0.8	4	50	TSF3512
TSF311271	70	1.5	1.68	2.7	3	21	22.5	1	2.6	50	TSF2012
TSF311892	70	1.5	1.6	2.55	2.8	23.5	25	0.7	2.9	50	TSF2712
TSF321702	70	1.5	1.72	2.84	3	24	25.5	0.8	2.3	50	TSF2712
TSF321763	70	1.7	1.81	2.63	2.8	19.5	21	1	3.3	50	TSF3512
TSF321463	70	1.95	2.04	2.7	-	25	26	1	5	50	TSF3512
TSF321141	70	2	2.26	3.62	3.8	23.5	25	0.8	2.9	50	TSF2012
TSF321823	70	2.2	2.25	-	-	21.5	23	0.8	4.9	50	TSF3512
TSF321793	70	2.7	2.85	3.68	3.8	23	24.5	1	4.2	50	TSF3512
TSF311411	70	3	3.15	4.55	4.8	22.5	24	0.8	1.9	50	TSF2012
TSF311663	70	3	3.18	4.55	4.8	25	26.5	0.8	4.2	50	TSF3512
TSF321583	70	3.2	3.4	4.2	4.4	24.5	-	1	5	50	TSF3512
TSF321151	70	3.5	3.68	5.4	5.6	23.5	25	0.8	2.7	50	TSF2012
TSF321813	70	3.6	3.64	-	-	23	24.5	0.8	5	50	TSF3512
TSF311151	70	3.8	3.85	5.13	5.3	23.5	25	0.8	2	50	TSF2012
TSF311831	70	4	4.25	5.85	6	21.5	23	0.8	1.8	50	TSF2012
TSF321273	70	4	4.2	4.9	-	20.5	22	1	4	50	TSF3512
TSF321553	70	4	4.2	4.85	5	25.3	-	1	5.3	50	TSF3512
TSF321353	70	4.2	4.28	5.35	-	24	25.5	1	3.8	50	TSF3512
TSF311281	70	4.3	4.45	5.66	5.8	17.5	19	1	2.5	50	TSF2012
TSF321243	70	4.5	4.73	5.61	5.8	21	22.5	1	3.82	50	TSF3512
TSF311993	70	4.8	4.9	5.97	6.1	20	21.5	0.8	2.9	50	TSF3512
TSF311421	70	5	5.25	7	7.3	20	21.5	0.8	2.1	50	TSF2012
TSF321803	70	5	5.09	-	-	19.5	21	1	4.6	50	TSF3512
TSF331143	70	5	5.1	6.05	6.3	23.5	25	1	4.6	50	TSF3512

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Part Number	Center Frequency [MHz]	Bandwidth [MHz]				Insertion Loss [dB]		Ripple [dB]	Absolute Delay [usec]	Ultimate Rejection [dB]	Package
		3dB		40dB		Typ	Max	Max	Typ	Min	
		Min	Typ	Typ	Max						
TSF321963	70	5.3	5.58	6.67	6.8	23.5	25	1	4.2	50	TSF3512
TSF321493	70	5.5	5.6	-	-	21.5	23	1	2.89	50	TSF3512
TSF311942	70	5.6	5.78	7.07	7.2	20	21.5	0.8	2.6	50	TSF2712
TSF331071	70	5.8	5.85	7.57	-	24	-	-	2.9	-	TSF2012
TSF311431	70	6	6.28	7.8	8	21.5	23	0.8	2.3	50	TSF2012
TSF311521	70	6.9	7	8.25	8.5	22.5	24	0.8	2.5	50	TSF2012
TSF311341	70	7	7.25	9.45	9.7	21	22.5	1	1.9	50	TSF2012
TSF311391	70	7.2	7.35	9.32	9.5	19.5	21	1	1.7	50	TSF2012
TSF311733	70	7.3	7.45	8.6	8.7	21	22.5	1	3.3	50	TSF3512
TSF311453	70	7.5	7.58	8.3	8.5	25.5	27	1	4.2	50	TSF3512
TSF321514	70	7.5	7.66	8.27	8.4	23.5	25	1	4.4	50	TSF3825
TSF321161	70	8	8.2	10.45	10.6	23	24	0.8	1.6	50	TSF2012
TSF321532	70	8.4	8.5	9.8	-	20.5	22	1	2.4	50	TSF3512
TSF311601	70	8.5	8.65	10.55	10.7	24	25.5	0.8	2.1	50	TSF2012
TSF311983	70	9	9.18	9.9	10	24	25.5	1	4	50	TSF3512
TSF311121	70	9.4	9.45	10.85	11	20.5	22	1	2.3	50	TSF2012
TSF311403	70	9.4	9.45	10.45	10.5	24.5	26.5	1	3.7	50	TSF3512
TSF311674	70	9.5	9.55	10.45	10.55	23.5	25	1	3.8	50	TSF3825
TSF311141	70	9.6	9.75	11.25	11.4	21	22.5	1	2.3	50	TSF2012
TSF311223	70	9.6	9.8	10.85	11	23	24.5	1	2.9	50	TSF3512
TSF311313	70	10	10.15	-	-	23	25	1	3.1	50	TSF3512
TSF311443	70	10	10.06	10.75	10.8	26	27.5	1	4	50	TSF3512
TSF311631	70	10	10.2	12.6	12.8	22.5	24	0.8	1.6	50	TSF2012
TSF321773	70	10.2	10.23	10.93	11.1	24.5	26	1	3.8	50	TSF3512
TSF311383	70	10.5	10.73	11.58	11.8	24.5	26	1	3.5	50	TSF3512
TSF321211	70	10.5	10.57	11.95	12.1	23	24.5	0.8	2.3	50	TSF2012
TSF321733	70	10.5	10.6	10.93	-	24.5	26	1	3.9	50	TSF3512
TSF321381	70	10.8	10.95	12.43	12.6	23	-	0.8	2.2	50	TSF2012
TSF311131	70	11	11.15	12.65	12.8	23.5	25	1	2.3	50	TSF2012
TSF321341	70	11	11.22	13	13.2	23.5	25	1	2.1	50	TSF2012
TSF321473	70	11	11.18	-	-	26.5	-	1	3.75	50	TSF3512
TSF321714	70	11.2	11.22	11.91	12.1	24.5	26	1	4.2	50	TSF3825
TSF321403	70	11.3	11.4	12.4	12.55	24.5	25.5	1	3.3	50	TSF3512
TSF321361	70	11.4	11.58	13.45	13.7	22.5	24	1	2	50	TSF2012
TSF311541	70	11.95	12.05	13.45	13.6	23.5	25	0.8	2.4	50	TSF2012
TSF321322	70	12.8	12.95	14.3	14.5	23.5	-	0.8	2.6	50	TSF2712
TSF321421	70	13	13.2	14.73	14.9	23.5	25	1	2.18	50	TSF2012
TSF311303	70	14.5	14.65	15.7	15.9	26	28	1	2.8	50	TSF3512
TSF321521	70	14.5	14.6	15.96	16.3	24.5	26	1	2.2	50	TSF2012
TSF331831	70	14.6	14.8	16.26	16.5	24.5	26	1	2.21	50	TSF2012
TSF321483	70	15.3	15.42	16.92	17.2	24.5	-	1	2.3	50	TSF3512
TSF321132	70	18.4	18.58	20.4	20.6	25.5	-	1	1.8	50	TSF2712
TSF321233	70	19	19.18	20.6	20.8	26.5	28	1	2.6	50	TSF3512
TSF321723	70	19	19.12	-	-	24.5	25.5	1	3.4	50	TSF3512
TSF331851	70	19.4	19.46	20.86	21	23.4	24.5	0.9	2.25	50	TSF2012

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		3dB		40dB		Typ	Max	Max	Typ	Min	
		Min	Typ	Typ	Max						
TSF331991	70	19.4	19.45	20.7	20.85	23.5	25	1	2.28	50	TSF2012
TSF321111	70	19.5	19.55	21.15	21.3	25.5	26.5	1	2.2	50	TSF2012
TSF511636	70	19.6	19.83	21.75	22	26.5	28	1	1.6	45	TSF2409
TSF321181	70	24.5	24.7	28.35	28.5	25.5	27	0.8	1.2	50	TSF2012
TSF321743	70	24.8	24.84	-	-	28.8	30	1	2.6	50	TSF3512
TSF321191	70	26	26.14	29.49	29.65	24.5	26	1	1.5	50	TSF2012
TSF311951	75	19.5	19.68	24	25.5	24	25.5	1	1.3	50	TSF2012
TSF311961	75	20	20.13	23.65	24	24	25.5	1	1.4	50	TSF2012
TSF321751	75	40.6	40.78	44	44.2	31.5	32.5	1	1.5	45	TSF2012
TSF321301	75.5	4.8	5	7.4	7.7	17	19	1	1.5	50	TSF2012
TSF311753	77.5	0.45	0.5	0.98	1	21.5	23	0.7	4.7	50	TSF3512
TSF321573	79.8	4	4.2	4.87	5	24.5	-	1	5	50	TSF3512
TSF331081	80	5.8	5.9	7.6	-	22	-	-	2.7	-	TSF2012
TSF311531	80	6.9	7	8.35	8.6	20.5	22	0.8	2.4	50	TSF2012
TSF311591	80	8.8	8.85	10.45	10.6	23	24.5	1	2.3	50	TSF2012
TSF311171	80	9.4	9.45	10.8	11	23.5	25	1	2.2	50	TSF2012
TSF311193	80	9.4	9.5	10.35	10.45	23.5	25	1	3.7	50	TSF3512
TSF311551	80	11.95	12.05	13.45	13.6	23.5	25	0.8	2.3	50	TSF2012
TSF311743	80	12.3	12.45	13.6	13.7	22	23.5	1	2.8	50	TSF3512
TSF321621	80	20.35	20.47	22.4	-	22.5	24	1	2.5	50	TSF2012
TSF311243	80.8	11	11.2	12.45	12.65	23	25	1	2.5	50	TSF3512
TSF331101	85.2	1.6	1.67	2.9	-	21	22.5	1	2.1	50	TSF2012
TSF321221	85.2	1.8	2.08	3.3	3.5	23	24.5	0.8	3.5	50	TSF2012
TSF321442	85.2	2	2.38	3.76	4	23.5	25	0.8	3.1	50	TSF2712
TSF321453	89.8	1.8	2.02	2.98	3.2	24.5	26	0.8	4	50	TSF3512
TSF331091	90	5.8	5.97	7.62	-	21.5	23	1	2.6	50	TSF2012
TSF311373	95	5	5.15	6.25	6.5	23	23.5	1	3.4	50	TSF3512
TSF312432	115	1.5	1.53	2.55	2.8	20.5	23	0.6	2.7	50	TSF2712
TSF312621	115	7	7.15	8.58	8.8	22.5	24	0.8	2.3	50	TSF2012
TSF312701	115	7.5	7.83	9.7	10	21.5	-	1	1.7	50	TSF2012
TSF312231	115	9.4	9.45	10.75	10.9	21.5	23	1	2.45	50	TSF2012
TSF312233	115	9.4	9.45	10.6	10.9	23.5	25	1	2.7	50	TSF3512
TSF312461	115	9.4	9.47	10.72	11	22	23.5	1	2.4	50	TSF2012
TSF312531	115	10.5	10.58	11.95	12.1	23.5	25	1	2.3	50	TSF2012
TSF312922	115	15.45	15.54	17.88	18	20.5	22	1	1.3	45	TSF2712
TSF312631	115.1	10.8	10.95	12.37	12.5	23	24.5	1	2.2	50	TSF2012
TSF332271	120	19.5	19.58	20.86	20.98	22.5	25	1	2.25	50	TSF2012
TSF512716	120	19.6	19.9	21.77	22	20.5	22	1	1.52	48	TSF2409
TSF322301	120.1	20.45	20.57	21.9	21.95	23.5	25	100	2.1	50	TSF2012
TSF322271	120.1	20.55	20.65	21.95	21.97	23	24.5	1	2.1	50	TSF2012
TSF312901	130	20	20.12	22.46	22.7	23	24.5	1	1.7	50	TSF2012
TSF322321	130	30.5	31.08	33.75	34	23	24.5	1	1.2	50	TSF2012

SAW Filter: IF Series SAW Filter

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# SAW FILTERS IF FILTERS

*SAW Filter: IF Series SAW Filter*

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Part Number	Center Frequency [MHz]	Bandwidth [MHz]				Insertion Loss [dB]		Ripple	Absolute Delay	Ultimate Rejection	Package
		3dB		40dB		Typ	Max	[dB]	[usec]	[dB]	
		Min	Typ	Typ	Max			Max	Typ	Min	
TSF312992	140	-	-	-	-	26	28	1.5	3.7	-	TSF2712
TSF332173	140	-	9.75	10.59	-	24	25.5	1	3.98	50	TSF3512
TSF312693	140	0.18	0.2	0.66	0.8	17.5	19	0.5	4.9	50	TSF3512
TSF312373	140	0.25	0.28	0.85	0.95	15.5	18	0.5	3	50	TSF3512
TSF312713	140	0.95	1.03	1.57	1.7	-	20.5	0.8	4.3	50	TSF3512
TSF312572	140	1.5	1.58	2.6	2.7	20.5	25	0.7	2.74	50	TSF2712
TSF312121	140	2.3	2.55	3.9	4.2	24.5	26	0.8	1.9	50	TSF2012
TSF312561	140	3	3.04	4.63	4.8	25.5	27	0.7	2.5	50	TSF2012
TSF312861	140	4	4.26	5.65	6	23	24.5	0.8	1.8	50	TSF2012
TSF312471	140	5	5.35	6.76	7	24	25.5	1	2.6	50	TSF2012
TSF312962	140	5	5.15	6.2	6.3	22	23.5	1	3.7	50	TSF2712
TSF312481	140	6	6.18	7.65	7.8	25	-	1	2.6	50	TSF2012
TSF312301	140	6.2	6.4	8.15	8.3	24	25.5	1	3.3	50	TSF2012
TSF312271	140	7	7.3	9	9.3	23	24.5	1	3	50	TSF2012
TSF312281	140	14	14.2	16.7	17	23.5	25	1	1.6	50	TSF2012
TSF312932N	140	14.4	14.55	15.65	15.8	23	24.5	1	2.71	50	TSF2712
TSF332191	140	14.6	14.87	16.55	16.8	21.5	24	1	2.07	50	TSF2012
TSF312871	140	15.3	15.45	16.96	17.2	24	25.5	1	2.1	50	TSF2012
TSF312341	140	16	16.15	19.57	19.8	22	23.5	0.8	1.2	50	TSF2012
TSF312331	140	19.45	19.55	20.9	21.3	24	25.5	1	2.2	50	TSF2012
TSF312241	140	20	20.3	23.85	24	22.5	24	1	1.4	50	TSF2012
TSF312551	140	20.5	20.7	22.63	22.9	24.5	26	0.8	1.6	50	TSF2012
TSF312111	140	24	24.36	28.35	28.7	21	22.5	1	1	50	TSF2012
TSF312611	140	25.2	25.38	20	30.3	23.5	25	0.8	0.9	50	TSF2012
TSF312291	140	28	28.2	33	33.3	24	25.5	1	1	50	TSF2012
TSF312491	140	30	30.5	35.75	36	24.5	26	0.8	0.9	50	TSF2012
TSF312891	140	39.95	40.04	46.71	47	23.5	25	1	1.1	50	TSF2012
TSF312681	140	44	44.3	48.58	49	24.5	26	1	1.1	50	TSF2012
TSF312733	147.2	4	4.2	4.9	5	26.5	-	1.5	4.9	45	TSF3512
TSF312511	150	5.8	6	8.85	9	24	25.5	0.8	1.9	50	TSF2012
TSF312501	150	16	16.1	18.3	18.6	20.5	22	1	1.7	50	TSF2012
TSF312881	155	4.95	5	6.39	6.5	20.5	22	1	2.8	50	TSF2012
TSF322291	155	9.6	9.8	11.16	11.3	23.5	25	1	2.7	50	TSF2012
TSF312451	155.1	19.4	19.55	21.2	21.4	23.5	25	1	2.1	50	TSF2012
TSF322263	160	2.7	2.82	3.35	3.5	23.5	24.5	1	4.4	50	TSF3512
TSF322121	160	4.25	4.32	5.48	5.7	22	23.5	1	2.6	45	TSF2012
TSF312671	160	5	5.08	6.45	6.6	23.5	25	1	2.8	50	TSF2012
TSF312672	160	5	5.08	6.45	6.6	23.5	25	1	2.8	50	TSF2712
TSF312203	160	9.3	9.5	10.55	10.85	24.5	26.5	1	3	50	TSF3512
TSF312131	160	9.4	9.5	10.85	11	23.5	25	1	2.9	50	TSF2012
TSF312202	160	9.4	9.54	10.48	10.7	25.5	26.5	1	3.7	50	TSF2712

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# SAW FILTERS IF FILTERS

Part Number	Center Frequency [MHz]	Bandwidth [MHz]				Insertion Loss [dB]		Ripple [dB]	Absolute Delay [usec]	Ultimate Rejection [dB]	Package
		3dB		40dB		Typ	Max	Max	Typ	Min	
		Min	Typ	Typ	Max						
TSF312641	160	16	16.63	19.42	19.7	23.5	25.5	0.8	1.4	55	TSF2012
TSF312442	160	19.45	19.55	21.05	-	25	26.5	1	2.2	50	TSF2712
TSF312191	160	19.5	19.63	21.65	21.8	24	25.5	1	1.6	50	TSF2012
TSF312651	160	20	20.75	24.42	25	23.5	25.5	0.8	1.17	55	TSF2012
TSF312761	160	21.5	21.68	24	24.3	23	24.5	1	1.4	50	TSF2012
TSF312321	160	31	31.27	34.3	34.6	24.5	26	1	1.1	50	TSF2012
TSF312661	160	32	33.36	38.81	39.2	24.5	26	0.8	0.8	50	TSF2012
TSF322201	160.2	19.65	19.78	21.29	21.5	23.5	25	1	2	50	TSF2012
TSF312601	165	12.2	12.3	14	14.3	24	25.5	1	2	50	TSF2012
TSF312181	170	19.5	19.65	22.4	22.8	22	23.5	1	1.5	50	TSF2012
TSF312981	190	19.4	19.5	21.02	21.3	26	27	1	2.8	50	TSF2012

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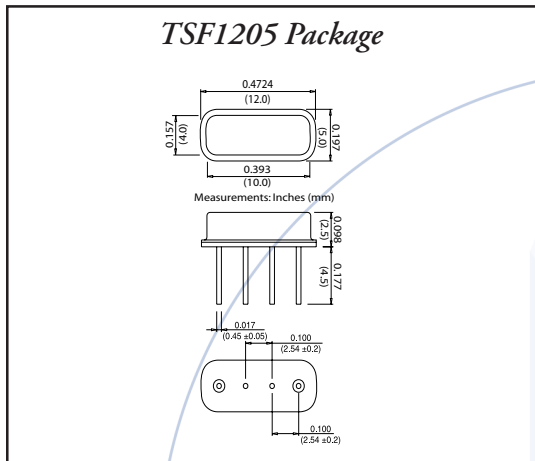
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# SAW FILTERS

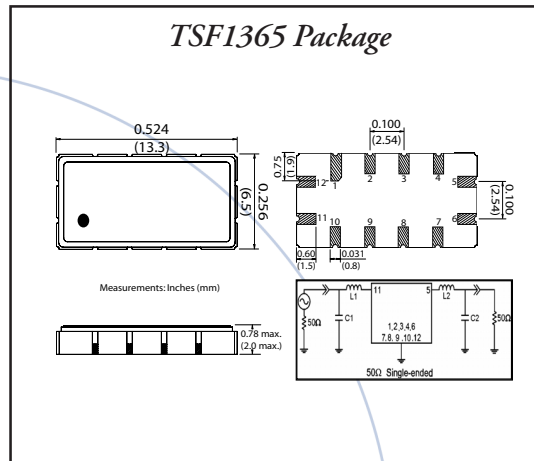
## Package Drawings

SAW Filter: IF Series SAW Filter

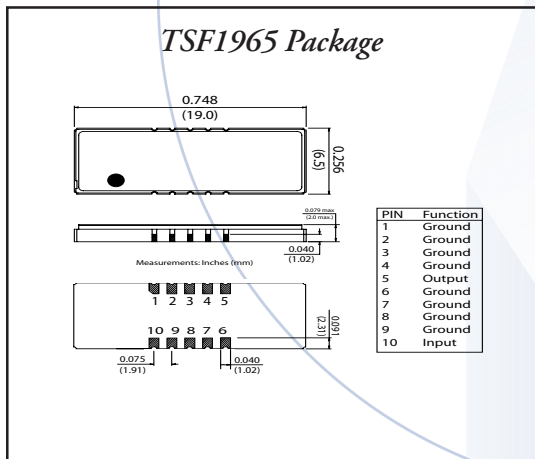
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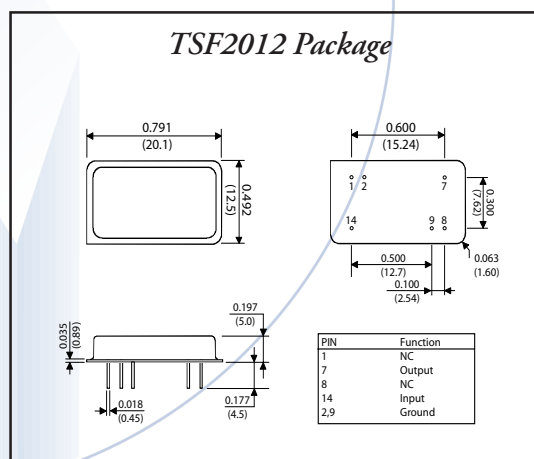
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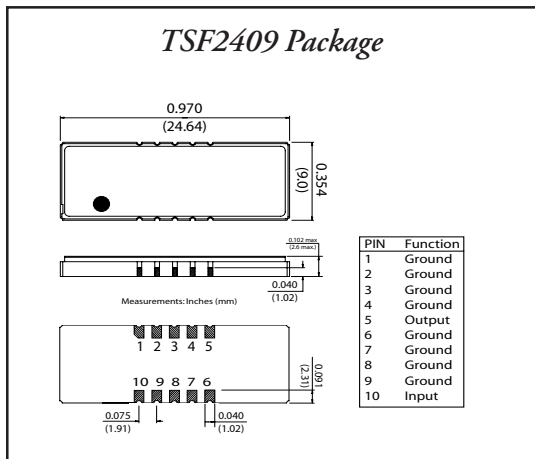
**TSF1965 Package**



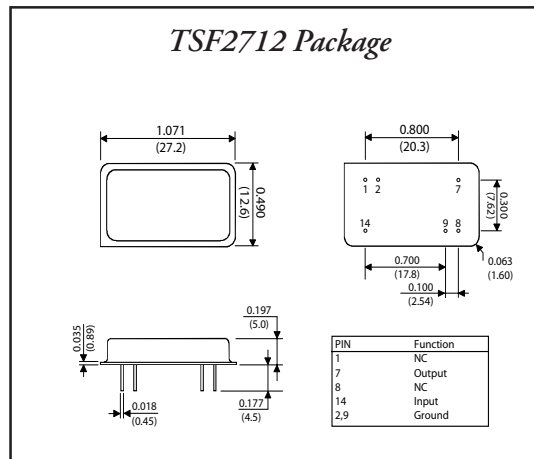
**TSF2012 Package**



**TSF2409 Package**



**TSF2712 Package**



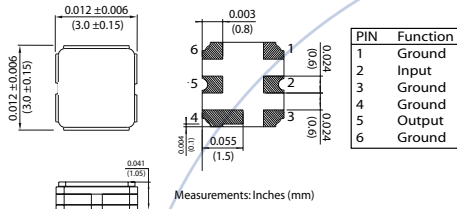
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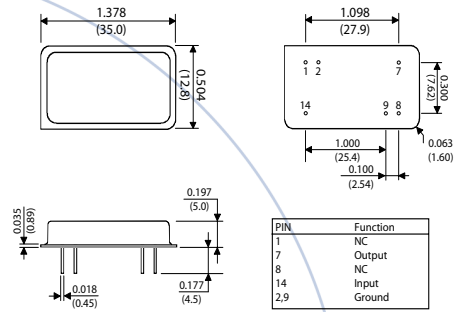
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# SAW FILTERS Package Drawings

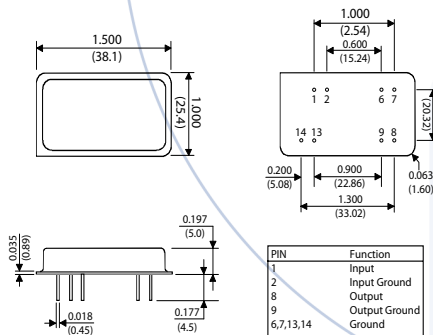
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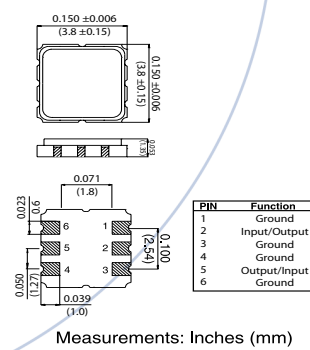
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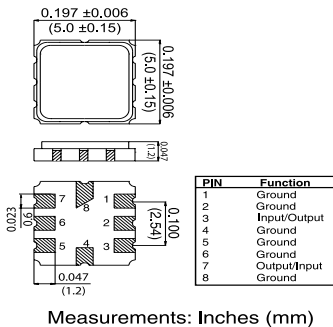
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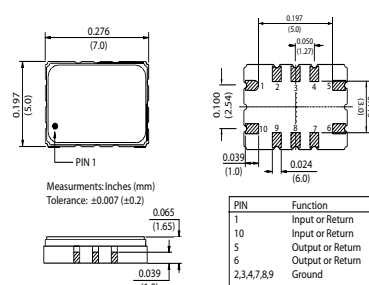
### TSF3838 Package



### TSF5050 Package



### TSF7050 Package



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