



Aertronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481
		±.001	Ref.										
4511-2200-360	22D	.019	0.205	NONE	NONE	0.202	0.202	NONE	NONE	NONE	0.547	0.417	NONE
4511-2201-360	22D	.020	0.420	0.350	0.350	0.544	0.544	0.350	0.890	0.770	0.889	0.759	0.750
3511-2202-360	22D	.015	0.240	0.068	0.068	0.262	0.262	0.068	0.608	0.488	0.607	0.477	0.468
3511-2203-360	22D	.015	0.340	0.168	0.168	0.362	0.362	0.168	0.708	0.588	0.707	0.577	0.568
3511-2204-360	22D	.015	0.440	0.268	0.268	0.462	0.462	0.268	0.808	0.688	0.807	0.677	0.668
3511-2205-360	22D	.019	0.540	0.368	0.368	0.562	0.562	0.368	0.908	0.788	0.907	0.777	0.768
4511-2205-360	22D	.019	0.540	0.368	0.368	0.562	0.562	0.368	0.908	0.788	0.907	0.777	0.768
4511-2206-360	22D	.020	0.538	0.535	0.535	0.729	0.729	0.535	1.075	0.955	1.074	0.944	0.935
4511-2207-360	22D	.019	0.232	0.230	0.230	0.424	0.424	0.230	0.770	0.650	0.769	0.639	0.630
4511-2208-360	22D	.025	0.245	0.376	0.376	0.570	0.570	0.376	0.916	0.796	0.915	0.785	0.776
4511-2209-360	22D	.020	0.250	NONE	NONE	0.195	0.195	NONE	NONE	NONE	0.540	0.410	NONE
4511-2210-360	22D	.020	0.437	0.279	0.279	0.473	0.473	0.279	0.819	0.699	0.818	0.688	0.679
4511-2211-360	22D	.019	0.266	0.196	0.196	0.390	0.390	0.196	0.736	0.616	0.735	0.605	0.596
4511-2212-360	22D	.020	0.355	0.158	0.158	0.352	0.352	0.158	0.698	0.578	0.697	0.567	0.558
4511-2213-360	22D	.021	0.345	0.343	0.343	0.537	0.537	0.343	0.883	0.763	0.882	0.752	0.743
4511-2214-360	22D	.019	0.145	0.144	0.144	0.338	0.338	0.144	0.684	0.564	0.683	0.553	0.544
4511-2215-360	22D	.021	0.283	0.281	0.281	0.475	0.475	0.281	0.821	0.701	0.820	0.690	0.681
4511-2216-360	22D	.020	0.122	NONE	NONE	0.149	0.149	NONE	NONE	NONE	0.494	0.364	NONE
4511-2217-360	22D	.019	0.178	0.464	0.464	0.658	0.658	0.464	1.004	0.884	1.003	0.873	0.864



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 2

Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472	MS27664	MS27499	MS27508	MS27474	MS27472	MS27664	MS27499	MS27508	MS27474
		±.001	Ref.	MS27479	MS27497	MS27504		MS27481	MS27479	MS27497	MS27513		MS27481
4511-2218-360	22D	.020	0.336	0.363	0.363	0.557	0.557	0.363	0.903	0.783	0.902	0.772	0.763
4511-2220-360	22D	.019	0.276	0.285	0.285	0.479	0.479	0.285	0.825	0.705	0.824	0.694	0.685
4511-2221-360	22D	.020	0.283	1.049	1.049	1.243	1.243	1.049	1.589	1.469	1.588	1.458	1.449
4511-2223-360	22D	.025	0.365	0.471	0.471	0.665	0.665	0.471	1.011	0.891	1.010	0.880	0.871
4511-2225-360	22D	.019	0.492	0.424	0.424	0.618	0.618	0.424	0.964	0.844	0.963	0.833	0.824
4511-2226-360	22D	.024	0.114	NONE	NONE	0.130	0.130	NONE	NONE	NONE	0.475	0.345	NONE
4511-2227-360	22D	.027	0.227	0.472	0.472	0.666	0.666	0.472	1.012	0.892	1.011	0.881	0.872
4511-2228-360	22D	.025	0.396	0.041	0.041	0.235	0.235	0.041	0.581	0.461	0.580	0.450	0.441
4511-2229-360	22D	.030	0.300	0.364	0.364	0.558	0.558	0.364	0.904	0.784	0.903	0.773	0.764
4511-2230-360	22D	.020	0.220	0.054	0.054	0.248	0.248	0.054	0.594	0.474	0.593	0.463	0.454
4511-2231-360	22D	.020	0.407	0.251	0.251	0.445	0.445	0.251	0.791	0.671	0.790	0.660	0.651
4511-2232-360	22D	.020	0.450	0.234	0.234	0.428	0.428	0.234	0.774	0.654	0.773	0.643	0.634
4511-2233-360	22D	.020	0.440	0.222	0.222	0.416	0.416	0.222	0.762	0.642	0.761	0.631	0.622
4511-2234-360	22D	.020	0.277	0.121	0.121	0.315	0.315	0.121	0.661	0.541	0.660	0.530	0.521
4511-2235-360	22D	.019	0.211	NONE	NONE	0.207	0.207	NONE	NONE	NONE	0.552	0.422	NONE
4511-2236-360	22D	.019	0.180	0.179	0.179	0.373	0.373	0.179	0.719	0.599	0.718	0.588	0.579
4511-2237-360	22D	.030	0.763	0.609	0.609	0.803	0.803	0.609	1.149	1.029	1.148	1.018	1.009
4511-2238-360	22D	.030	0.893	0.739	0.739	0.933	0.933	0.739	1.279	1.159	1.278	1.148	1.139
4511-2239-360	22D	.020	0.169	0.207	0.207	0.401	0.401	0.207	0.747	0.627	0.746	0.616	0.607
4511-2240-360	22D	.019	0.131	NONE	NONE	0.123	0.123	NONE	NONE	NONE	0.468	0.338	NONE
4511-2241-360	22D	.0275	0.157	0.238	0.238	0.432	0.432	0.238	0.778	0.658	0.777	0.647	0.638
4511-2243-360	22D	.019	0.157	0.213	0.213	0.407	0.407	0.213	0.753	0.633	0.752	0.622	0.613
4511-2244-360	22D	.020	0.180	0.178	0.178	0.372	0.372	0.178	0.718	0.598	0.717	0.587	0.578
4511-2245-360	22D	.020	0.121	0.183	0.183	0.377	0.377	0.183	0.723	0.603	0.722	0.592	0.583
4511-2246-360	22D	.019	0.094	0.092	0.092	0.286	0.286	0.092	0.632	0.512	0.631	0.501	0.492
4511-2247-360	22D	.025	0.329	0.406	0.406	0.600	0.600	0.406	0.946	0.826	0.945	0.815	0.806
4511-2248-360	22D	.032	0.400	0.417	0.417	0.611	0.611	0.417	0.957	0.837	0.956	0.826	0.817
4511-2249-360	22D	.022	0.170	0.265	0.265	0.459	0.459	0.265	0.805	0.685	0.804	0.674	0.665
3511-2250-360	22D	.019	0.544	0.479	0.479	0.673	0.673	0.479	1.019	0.899	1.018	0.888	0.879
4511-2251-360	22D	.019	0.236	0.417	0.417	0.611	0.611	0.417	0.957	0.837	0.956	0.826	0.817
4511-2252-360	22D	.019	0.205	0.745	0.745	0.939	0.939	0.745	1.285	1.165	1.284	1.154	1.145
3511-2253-360	22D	.019	0.500	0.613	0.613	0.807	0.807	0.613	1.153	1.033	1.152	1.022	1.013
4511-2254-360	22D	.025	0.145	0.279	0.279	0.473	0.473	0.279	0.819	0.699	0.818	0.688	0.679
3511-2255-360	22D	.025	0.445	0.581	0.581	0.775	0.775	0.581	1.121	1.001	1.120	0.990	0.981
4511-2256-360	22D	.025	0.345	0.481	0.481	0.675	0.675	0.481	1.021	0.901	1.020	0.890	0.881
4511-2257-360	22D	.029	0.118	0.362	0.362	0.556	0.556	0.362	0.902	0.782	0.901	0.771	0.762



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 3

Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481
		±.001	Ref.										
4511-2258-360	22D	.025	0.545	0.677	0.677	0.871	0.871	0.677	1.217	1.097	1.216	1.086	1.077
4511-2259-360	22D	.031	0.762	0.609	0.609	0.803	0.803	0.609	1.149	1.029	1.148	1.018	1.009
4511-2260-360	22D	.025	0.515	0.277	0.277	0.471	0.471	0.277	0.817	0.697	0.816	0.686	0.677
4511-2261-360	22D	.030	0.148	0.336	0.336	0.530	0.530	0.336	0.876	0.756	0.875	0.745	0.736
4511-2262-360	22D	.019	0.137	0.306	0.306	0.500	0.500	0.306	0.846	0.726	0.845	0.715	0.706
4511-2263-360	22D	.019	0.251	0.569	0.569	0.763	0.763	0.569	1.109	0.989	1.108	0.978	0.969
4511-2264-360	22D	.019	0.267	0.113	0.113	0.307	0.307	0.113	0.653	0.533	0.652	0.522	0.513
4511-2265-360	22D	.019	0.410	0.417	0.417	0.611	0.611	0.417	0.957	0.837	0.956	0.826	0.817
4511-2266-360	22D	.019	0.345	0.193	0.193	0.387	0.387	0.193	0.733	0.613	0.732	0.602	0.593
4511-2267-360	22D	.019	0.430	0.278	0.278	0.472	0.472	0.278	0.818	0.698	0.817	0.687	0.678
4511-2268-360	22D	.019	0.152	NONE	NONE	0.172	0.172	NONE	NONE	NONE	0.517	0.387	NONE
4511-2269-360	22D	.019	0.157	NONE	NONE	0.062	0.062	NONE	NONE	NONE	0.407	0.277	NONE
4511-2270-360	22D	.019	0.165	0.335	0.335	0.529	0.529	0.335	0.875	0.755	0.874	0.744	0.735
4511-2271-360	22D	.025	0.630	0.764	0.764	0.958	0.958	0.764	1.304	1.184	1.303	1.173	1.164
3511-2272-360	22D	.019	0.769	0.616	0.616	0.810	0.810	0.616	1.156	1.036	1.155	1.025	1.016
3511-2273-360	22D	.019	0.509	0.260	0.260	0.454	0.454	0.260	0.800	0.680	0.799	0.669	0.660
4511-2274-360	22D	.019	0.130	0.041	0.041	0.235	0.235	0.041	0.581	0.461	0.580	0.450	0.441
4511-2275-360	22D	.019	0.200	0.266	0.266	0.460	0.460	0.266	0.806	0.686	0.805	0.675	0.666
4511-2276-360	22D	.019	0.360	0.371	0.371	0.565	0.565	0.371	0.911	0.791	0.910	0.780	0.771
4511-2278-360	22D	.019	0.240	0.257	0.257	0.451	0.451	0.257	0.797	0.677	0.796	0.666	0.657
4511-2279-360	22D	.026	0.182	0.161	0.161	0.355	0.355	0.161	0.701	0.581	0.700	0.570	0.561
3511-2280-360	22D	.019	0.578	0.509	0.509	0.703	0.703	0.509	1.049	0.929	1.048	0.918	0.909
3511-2281-360	22D	.019	0.522	0.453	0.453	0.647	0.647	0.453	0.993	0.873	0.992	0.862	0.853
4511-2282-360	22D	.019	0.240	0.233	0.233	0.427	0.427	0.233	0.773	0.653	0.772	0.642	0.633
4511-2283-360	22D	.019	0.407	0.250	0.250	0.444	0.444	0.250	0.790	0.670	0.789	0.659	0.650
4511-2284-360	22D	.019	0.205	0.038	0.038	0.232	0.232	0.038	0.578	0.458	0.577	0.447	0.438
4511-2285-360	22D	.019	0.205	0.888	0.888	1.082	1.082	0.888	1.428	1.308	1.427	1.297	1.288
4511-2286-360	22D	.019	0.324	1.245	1.245	1.439	1.439	1.245	1.785	1.665	1.784	1.654	1.645
4511-2287-360	22D	.019	0.411	0.254	0.254	0.448	0.448	0.254	0.794	0.674	0.793	0.663	0.654
4511-2288-360	22D	.019	0.240	0.233	0.233	0.427	0.427	0.233	0.773	0.653	0.772	0.642	0.633
3511-2289-360	22D	.019	0.513	0.991	0.991	1.185	1.185	0.991	1.531	1.411	1.530	1.400	1.391
4511-2290-360	22D	.019	0.140	NONE	NONE	0.137	0.137	NONE	NONE	NONE	0.482	0.352	NONE
4511-2291-360	22D	.019	0.200	0.073	0.073	0.267	0.267	0.073	0.613	0.493	0.612	0.482	0.473
4511-2292-360	22D	.019	0.220	NONE	NONE	0.102	0.102	NONE	NONE	NONE	0.447	0.317	NONE
4511-2293-360	22D	.019	0.643	0.288	0.288	0.482	0.482	0.288	0.828	0.708	0.827	0.697	0.688
4511-2294-360	22D	.019	0.292	0.223	0.223	0.417	0.417	0.223	0.763	0.643	0.762	0.632	0.623



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 4

Aerotronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472	MS27664	MS27499	MS27508	MS27474	MS27472	MS27664	MS27499	MS27508	MS27474
		±.001	Ref.	MS27479	MS27497	MS27504	MS27513	MS27481	MS27479	MS27497	MS27513	MS27481	MS27481
4511-2295-360	22D	.019	0.254	0.217	0.217	0.411	0.411	0.217	0.757	0.637	0.756	0.626	0.617
4511-2296-360	22D	.019	0.086	0.161	0.161	0.355	0.355	0.161	0.701	0.581	0.700	0.570	0.561
4511-2297-360	22D	.019	0.350	0.190	0.190	0.384	0.384	0.190	0.730	0.610	0.729	0.599	0.590
4511-2298-360	22D	.019	0.467	0.398	0.398	0.592	0.592	0.398	0.938	0.818	0.937	0.807	0.798
4511-2299-360	22D	.019	0.290	0.058	0.058	0.252	0.252	0.058	0.598	0.478	0.597	0.467	0.458
4511-2253B-360	22D	.030	0.250	0.260	0.260	0.454	0.454	0.260	0.800	0.680	0.799	0.669	0.660
4511-2254B-360	22D	.031	0.197	0.205	0.205	0.399	0.399	0.205	0.745	0.625	0.744	0.614	0.605
4511-2255B-360	22D	.019	0.170	0.323	0.323	0.517	0.517	0.323	0.863	0.743	0.862	0.732	0.723
4511-2256B-360	22D	.019	0.256	0.399	0.399	0.593	0.593	0.399	0.939	0.819	0.938	0.808	0.799
4511-2257B-360	22D	.019	0.310	0.303	0.303	0.497	0.497	0.303	0.843	0.723	0.842	0.712	0.703
4511-2258B-360	22D	.019	0.148	0.081	0.081	0.275	0.275	0.081	0.621	0.501	0.620	0.490	0.481
3511-2259B-360	22D	.019	0.450	0.184	0.184	0.378	0.378	0.184	0.724	0.604	0.723	0.593	0.584
4511-2260B-360	22D	.019	0.470	0.313	0.313	0.507	0.507	0.313	0.853	0.733	0.852	0.722	0.713
4511-2261B-360	22D	.019	0.285	0.303	0.303	0.497	0.497	0.303	0.843	0.723	0.842	0.712	0.703
4511-2262B-360	22D	.019	0.285	0.297	0.297	0.491	0.491	0.297	0.837	0.717	0.836	0.706	0.697
4511-2263B-360	22D	.019	0.265	0.196	0.196	0.390	0.390	0.196	0.736	0.616	0.735	0.605	0.596
4511-2264B-360	22D	.019	0.118	0.184	0.184	0.378	0.378	0.184	0.724	0.604	0.723	0.593	0.584
4511-2265B-360	22D	.019	0.492	0.424	0.424	0.618	0.618	0.424	0.964	0.844	0.963	0.833	0.824
4511-2266B-360	22D	.019	0.573	0.505	0.505	0.699	0.699	0.505	1.045	0.925	1.044	0.914	0.905
4511-2267B-360	22D	.019	0.443	0.375	0.375	0.569	0.569	0.375	0.915	0.795	0.914	0.784	0.775
4511-2268B-360	22D	.019	0.355	0.865	0.865	1.059	1.059	0.865	1.405	1.285	1.404	1.274	1.265
4511-2269B-360	22D	.019	0.315	0.158	0.158	0.352	0.352	0.158	0.698	0.578	0.697	0.567	0.558
4511-2270B-360	22D	.019	0.100	0.166	0.166	0.360	0.360	0.166	0.706	0.586	0.705	0.575	0.566
4511-2271B-360	22D	.019	0.285	0.283	0.283	0.477	0.477	0.283	0.823	0.703	0.822	0.692	0.683
4511-2272B-360	22D	.019	0.598	0.463	0.463	0.657	0.657	0.463	1.003	0.883	1.002	0.872	0.863
4511-2273B-360	22D	.019	0.125	NONE	NONE	0.072	0.072	NONE	NONE	NONE	0.417	0.287	NONE
4511-2274B-360	22D	.019	0.446	0.293	0.293	0.487	0.487	0.293	0.833	0.713	0.832	0.702	0.693
4511-2275B-360	22D	.019	0.465	0.308	0.308	0.502	0.502	0.308	0.848	0.728	0.847	0.717	0.708
4511-2276B-360	22D	.019	0.438	0.553	0.553	0.747	0.747	0.553	1.093	0.973	1.092	0.962	0.953
4511-2277B-360	22D	.019	0.745	1.216	1.216	1.410	1.410	1.216	1.756	1.636	1.755	1.625	1.616
4511-2278B-360	22D	.019	0.426	0.269	0.269	0.463	0.463	0.269	0.809	0.689	0.808	0.678	0.669
4511-2279B-360	22D	.019	0.391	0.322	0.322	0.516	0.516	0.322	0.862	0.742	0.861	0.731	0.722
4511-2281B-360	22D	.019	0.208	0.209	0.209	0.403	0.403	0.209	0.749	0.629	0.748	0.618	0.609
4511-2282B-360	22D	.019	0.157	0.480	0.480	0.674	0.674	0.480	1.020	0.900	1.019	0.889	0.880
4511-2283B-360	22D	.019	0.187	0.118	0.118	0.312	0.312	0.118	0.658	0.538	0.657	0.527	0.518
4511-2284B-360	22D	.019	0.316	0.124	0.124	0.318	0.318	0.124	0.664	0.544	0.663	0.533	0.524



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 5

Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481
		±.001	Ref.										
4511-2285B-360	22D	.019	0.194	0.374	0.374	0.568	0.568	0.374	0.914	0.794	0.913	0.783	0.774
4511-2286B-360	22D	.019	0.192	0.403	0.403	0.597	0.597	0.403	0.943	0.823	0.942	0.812	0.803
4511-2287B-360	22D	.019	0.420	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-2288B-360	22D	.019	0.122	NONE	NONE	0.149	0.149	NONE	NONE	NONE	0.494	0.364	NONE
4511-2289B-360	22D	.019	0.250	0.568	0.568	0.762	0.762	0.568	1.108	0.988	1.107	0.977	0.968
4511-2290B-360	22D	.019	0.223	0.056	0.056	0.250	0.250	0.056	0.596	0.476	0.595	0.465	0.456
4511-2291B-360	22D	.019	0.294	NONE	NONE	0.132	0.132	NONE	NONE	NONE	0.477	0.347	NONE
4511-2292B-360	22D	.019	0.394	0.038	0.038	0.232	0.232	0.038	0.578	0.458	0.577	0.447	0.438
4511-2293B-360	22D	.019	0.100	0.168	0.168	0.362	0.362	0.168	0.708	0.588	0.707	0.577	0.568
4511-2294B-360	22D	.019	0.430	0.358	0.358	0.552	0.552	0.358	0.898	0.778	0.897	0.767	0.758
4511-2295B-360	22D	.019	0.227	0.225	0.225	0.419	0.419	0.225	0.765	0.645	0.764	0.634	0.625
4511-2296B-360	22D	.019	0.295	NONE	NONE	0.197	0.197	NONE	NONE	NONE	0.542	0.412	NONE
4511-2297B-360	22D	.019	0.512	0.443	0.443	0.637	0.637	0.443	0.983	0.863	0.982	0.852	0.843
4511-2298B-360	22D	.019	0.284	0.212	0.212	0.406	0.406	0.212	0.752	0.632	0.751	0.621	0.612
4511-2299B-360	22D	.019	0.342	0.341	0.341	0.535	0.535	0.341	0.881	0.761	0.880	0.750	0.741
4511-2200-361	22M	.020	0.450	0.223	0.223	0.417	0.417	0.223	0.763	0.643	0.762	0.632	0.623
4511-2201-361	22M	.022	0.187	0.320	0.320	0.514	0.514	0.320	0.860	0.740	0.859	0.729	0.720
3511-2202-361	22M	.019	0.562	0.526	0.526	0.720	0.720	0.526	1.066	0.946	1.065	0.935	0.926
4511-2202-361	22M	.019	0.562	0.526	0.526	0.720	0.720	0.526	1.066	0.946	1.065	0.935	0.926
1511-2203-361	22M	.019	0.378	0.232	0.232	0.426	0.426	0.232	0.772	0.652	0.771	0.641	0.632
3511-2203-361	22M	.019	0.378	0.232	0.232	0.426	0.426	0.232	0.772	0.652	0.771	0.641	0.632
4511-2203-361	22M	.019	0.378	0.232	0.232	0.426	0.426	0.232	0.772	0.652	0.771	0.641	0.632
4511-2204-361	22M	.019	0.305	0.925	0.925	1.119	1.119	0.925	1.465	1.345	1.464	1.334	1.325
4511-2205-361	22M	.019	0.305	0.063	0.063	0.257	0.257	0.063	0.603	0.483	0.602	0.472	0.463
1511-2206-361	22M	.019	0.489	0.344	0.344	0.538	0.538	0.344	0.884	0.764	0.883	0.753	0.744
3511-2206-361	22M	.019	0.489	0.344	0.344	0.538	0.538	0.344	0.884	0.764	0.883	0.753	0.744
4511-2206-361	22M	.019	0.489	0.344	0.344	0.538	0.538	0.344	0.884	0.764	0.883	0.753	0.744
3511-2207-361	22M	.019	0.764	0.695	0.695	0.889	0.889	0.695	1.235	1.115	1.234	1.104	1.095
4511-2207-361	22M	.019	0.764	0.695	0.695	0.889	0.889	0.695	1.235	1.115	1.234	1.104	1.095
4511-2208-361	22M	.019	0.200	0.073	0.073	0.267	0.267	0.073	0.613	0.493	0.612	0.482	0.473
4511-2209-361	22M	.025	0.393	0.038	0.038	0.232	0.232	0.038	0.578	0.458	0.577	0.447	0.438
4511-2210-361	22M	.019	0.154	NONE	NONE	0.062	0.062	NONE	NONE	NONE	0.407	0.277	NONE
3511-2211-361	22M	.019	0.300	0.104	0.104	0.298	0.298	0.104	0.644	0.524	0.643	0.513	0.504
4511-2211-361	22M	.019	0.300	0.104	0.104	0.298	0.298	0.104	0.644	0.524	0.643	0.513	0.504
4511-2212-361	22M	.020	0.352	0.157	0.157	0.351	0.351	0.157	0.697	0.577	0.696	0.566	0.557
4511-2213-361	22M	.019	0.444	0.293	0.293	0.487	0.487	0.293	0.833	0.713	0.832	0.702	0.693



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 6

Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481
		±.001	Ref.										
4511-2214-361	22M	.019	0.090	0.333	0.333	0.527	0.527	0.333	0.873	0.753	0.872	0.742	0.733
4511-2215-361	22M	.019	0.161	NONE	NONE	0.208	0.208	NONE	NONE	NONE	0.553	0.423	NONE
1511-2216-361	22M	.019	0.352	0.198	0.198	0.392	0.392	0.198	0.738	0.618	0.737	0.607	0.598
1511-2217-361	22M	.019	0.118	0.185	0.185	0.379	0.379	0.185	0.725	0.605	0.724	0.594	0.585
4511-2218-361	22M	.019	0.138	0.205	0.205	0.399	0.399	0.205	0.745	0.625	0.744	0.614	0.605
4511-2219-361	22M	.019	0.157	0.224	0.224	0.418	0.418	0.224	0.764	0.644	0.763	0.633	0.624
4511-2221-361	22M	.019	0.177	0.244	0.244	0.438	0.438	0.244	0.784	0.664	0.783	0.653	0.644
4511-2223-361	22M	.019	0.197	0.264	0.264	0.458	0.458	0.264	0.804	0.684	0.803	0.673	0.664
4511-2225-361	22M	.019	0.217	0.284	0.284	0.478	0.478	0.284	0.824	0.704	0.823	0.693	0.684
4511-2226-361	22M	.019	0.573	0.505	0.505	0.699	0.699	0.505	1.045	0.925	1.044	0.914	0.905
4511-2227-361	22M	.019	0.236	0.303	0.303	0.497	0.497	0.303	0.843	0.723	0.842	0.712	0.703
4511-2228-361	22M	.019	0.267	0.277	0.277	0.471	0.471	0.277	0.817	0.697	0.816	0.686	0.677
4511-2229-361	22M	.020	0.286	0.293	0.293	0.487	0.487	0.293	0.833	0.713	0.832	0.702	0.693
3591-2230-361	22M	.018	0.393	0.038	0.038	0.232	0.232	0.038	0.578	0.458	0.577	0.447	0.438
3591-2231-361	22M	.018	0.643	0.288	0.288	0.482	0.482	0.288	0.828	0.708	0.827	0.697	0.688
3591-2232-361	22M	.018	0.293	NONE	NONE	0.132	0.132	NONE	NONE	NONE	0.477	0.347	NONE
3591-2233-361	22M	.025	0.393	0.038	0.038	0.232	0.232	0.038	0.578	0.458	0.577	0.447	0.438
3591-2234-361	22M	.018	0.643	0.288	0.288	0.482	0.482	0.288	0.828	0.708	0.827	0.697	0.688
3591-2235-361	22M	.018	0.293	NONE	NONE	0.132	0.132	NONE	NONE	NONE	0.477	0.347	NONE
3591-2236-361	22M	.025	0.393	0.038	0.038	0.232	0.232	0.038	0.578	0.458	0.577	0.447	0.438
4511-2240-361	22M	.019	0.118	0.218	0.218	0.412	0.412	0.218	0.758	0.638	0.757	0.627	0.618
4511-2241-361	22M	.019	0.138	0.238	0.238	0.432	0.432	0.238	0.778	0.658	0.777	0.647	0.638
4511-2242-361	22M	.019	0.157	0.257	0.257	0.451	0.451	0.257	0.797	0.677	0.796	0.666	0.657
4511-2243-361	22M	.019	0.177	0.277	0.277	0.471	0.471	0.277	0.817	0.697	0.816	0.686	0.677
4511-2244-361	22M	.019	0.197	0.297	0.297	0.491	0.491	0.297	0.837	0.717	0.836	0.706	0.697
4511-2245-361	22M	.019	0.217	0.317	0.317	0.511	0.511	0.317	0.857	0.737	0.856	0.726	0.717
4511-2246-361	22M	.019	0.236	0.336	0.336	0.530	0.530	0.336	0.876	0.756	0.875	0.745	0.736
4511-2247-361	22M	.020	0.769	0.614	0.614	0.808	0.808	0.614	1.154	1.034	1.153	1.023	1.014
4511-2248-361	22M	.019	0.318	0.466	0.466	0.660	0.660	0.466	1.006	0.886	1.005	0.875	0.866
4511-2249-361	22M	.019	0.413	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
1511-2250-361	22M	.019	0.502	0.260	0.260	0.454	0.454	0.260	0.800	0.680	0.799	0.669	0.660
3511-2250-361	22M	.019	0.502	0.260	0.260	0.454	0.454	0.260	0.800	0.680	0.799	0.669	0.660
4511-2251-361	22M	.019	0.266	0.120	0.120	0.314	0.314	0.120	0.660	0.540	0.659	0.529	0.520
4511-2252-361	22M	.019	0.233	NONE	NONE	0.185	0.185	NONE	NONE	NONE	0.530	0.400	NONE
1511-2254-361	22M	.019	0.762	0.616	0.616	0.810	0.810	0.616	1.156	1.036	1.155	1.025	1.016
3511-2254-361	22M	.019	0.762	0.616	0.616	0.810	0.810	0.616	1.156	1.036	1.155	1.025	1.016



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 7

Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472	MS27664	MS27499	MS27508	MS27474	MS27472	MS27664	MS27499	MS27508	MS27474
		±.001	Ref.	MS27479	MS27497	MS27504		MS27481	MS27479	MS27497	MS27513		MS27481
4511-2255-361	22M	.019	0.216	0.154	0.154	0.348	0.348	0.154	0.694	0.574	0.693	0.563	0.554
4511-2256-361	22M	.019	0.161	NONE	NONE	0.208	0.208	NONE	NONE	NONE	0.553	0.423	NONE
4511-2257-361	22M	.019	0.148	NONE	NONE	0.126	0.126	NONE	NONE	NONE	0.471	0.341	NONE
4511-2258-361	22M	.019	0.283	NONE	NONE	0.064	0.064	NONE	NONE	NONE	0.409	0.279	NONE
4511-2259-361	22M	.019	0.564	0.495	0.495	0.689	0.689	0.495	1.035	0.915	1.034	0.904	0.895
4511-2260-361	22M	.029	0.280	0.259	0.259	0.453	0.453	0.259	0.799	0.679	0.798	0.668	0.659
4511-2261-361	22M	.019	0.152	NONE	NONE	0.172	0.172	NONE	NONE	NONE	0.517	0.387	NONE
4511-2262-361	22M	.019	0.250	NONE	NONE	0.195	0.195	NONE	NONE	NONE	0.540	0.410	NONE
4511-2263-361	22M	.019	0.235	0.165	0.165	0.359	0.359	0.165	0.705	0.585	0.704	0.574	0.565
4511-2264-361	22M	.019	0.268	0.416	0.416	0.610	0.610	0.416	0.956	0.836	0.955	0.825	0.816
4511-2265-361	22M	.019	0.290	0.041	0.041	0.235	0.235	0.041	0.581	0.461	0.580	0.450	0.441
3511-2266-361	22M	.019	0.631	0.478	0.478	0.672	0.672	0.478	1.018	0.898	1.017	0.887	0.878
4511-2267-361	22M	.019	0.188	0.258	0.258	0.452	0.452	0.258	0.798	0.678	0.797	0.667	0.658
4511-2268-361	22M	.019	0.330	0.261	0.261	0.455	0.455	0.261	0.801	0.681	0.800	0.670	0.661
4511-2269-361	22M	.019	0.223	NONE	NONE	0.175	0.175	NONE	NONE	NONE	0.520	0.390	NONE
4511-2000-363	20	.025	0.297	0.234	0.234	0.428	0.428	0.234	0.774	0.654	0.773	0.643	0.634
4511-2001-363	20	.026	0.200	0.319	0.319	0.513	0.513	0.319	0.859	0.739	0.858	0.728	0.719
1511-2002-363	20	.019	0.432	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-2002-363	20	.019	0.435	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-2003-363	20	.019	0.136	0.146	0.146	0.340	0.340	0.146	0.686	0.566	0.685	0.555	0.546
4511-2004-363	20	.020	0.250	0.293	0.293	0.487	0.487	0.293	0.833	0.713	0.832	0.702	0.693
4511-2005-363	20	.019	0.225	NONE	NONE	0.147	0.147	NONE	NONE	NONE	0.492	0.362	NONE
4511-2006-363	20	.019	0.300	0.216	0.216	0.410	0.410	0.216	0.756	0.636	0.755	0.625	0.616
4511-2007-363	20	.025	0.377	0.152	0.152	0.346	0.346	0.152	0.692	0.572	0.691	0.561	0.552
4511-2008-363	20	.025	0.343	0.063	0.063	0.257	0.257	0.063	0.603	0.483	0.602	0.472	0.463
4511-2009-363	20	.025	0.401	0.154	0.154	0.348	0.348	0.154	0.694	0.574	0.693	0.563	0.554
3511-2010-363	20	.019	0.085	0.223	0.223	0.417	0.417	0.223	0.763	0.643	0.762	0.632	0.623
1511-2011-363	20	.019	0.406	0.225	0.225	0.419	0.419	0.225	0.765	0.645	0.764	0.634	0.625
1511-2012-363	20	.019	0.410	0.141	0.141	0.335	0.335	0.141	0.681	0.561	0.680	0.550	0.541
4511-2013-363	20	.019	0.335	0.063	0.063	0.257	0.257	0.063	0.603	0.483	0.602	0.472	0.463
4511-2014-363	20	.019	0.135	NONE	NONE	0.057	0.057	NONE	NONE	NONE	0.402	0.272	NONE
4511-2015-363	20	.019	0.934	0.662	0.662	0.856	0.856	0.662	1.202	1.082	1.201	1.071	1.062
4511-2016-363	20	.019	0.200	0.073	0.073	0.267	0.267	0.073	0.613	0.493	0.612	0.482	0.473
4511-2017-363	20	.019	0.481	0.216	0.216	0.410	0.410	0.216	0.756	0.636	0.755	0.625	0.616
4511-2018-363	20	.019	0.342	0.258	0.258	0.452	0.452	0.258	0.798	0.678	0.797	0.667	0.658
4511-2021-363	20	.019	0.250	0.169	0.169	0.363	0.363	0.169	0.709	0.589	0.708	0.578	0.569



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 8

Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481
		±.001	Ref.										
4511-2022-363	20	.019	0.250	0.293	0.293	0.487	0.487	0.293	0.833	0.713	0.832	0.702	0.693
4511-2023-363	20	.019	0.090	0.156	0.156	0.350	0.350	0.156	0.696	0.576	0.695	0.565	0.556
4511-2024-363	20	.019	0.327	0.243	0.243	0.437	0.437	0.243	0.783	0.663	0.782	0.652	0.643
4511-2025-363	20	.019	0.712	0.628	0.628	0.822	0.822	0.628	1.168	1.048	1.167	1.037	1.028
4511-2026-363	20	.019	0.240	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-2027-363	20	.019	0.330	0.261	0.261	0.455	0.455	0.261	0.801	0.681	0.800	0.670	0.661
4511-2028-363	20	.019	0.274	0.100	0.100	0.294	0.294	0.100	0.640	0.520	0.639	0.509	0.500
4511-2029-363	20	.019	0.420	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-2030-363	20	.040	0.275	0.447	0.447	0.641	0.641	0.447	0.987	0.867	0.986	0.856	0.847
4511-2031-363	20	.025	0.551	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-2032-363	20	.023	0.276	0.412	0.412	0.606	0.606	0.412	0.952	0.832	0.951	0.821	0.812
4511-2033-363	20	.025	0.160	0.144	0.144	0.338	0.338	0.144	0.684	0.564	0.683	0.553	0.544
4511-2034-363	20	.025	0.195	0.179	0.179	0.373	0.373	0.179	0.719	0.599	0.718	0.588	0.579
4511-2035-363	20	.025	0.317	0.263	0.263	0.457	0.457	0.263	0.803	0.683	0.802	0.672	0.663
3511-2036-363	20	.019	0.638	0.559	0.559	0.753	0.753	0.559	1.099	0.979	1.098	0.968	0.959
4511-2237-363	20	.019	0.378	0.229	0.229	0.423	0.423	0.229	0.769	0.649	0.768	0.638	0.629
4511-2038-363	20	.019	0.502	0.345	0.345	0.539	0.539	0.345	0.885	0.765	0.884	0.754	0.745
4511-2039-363	20	.030	0.136	0.146	0.146	0.340	0.340	0.146	0.686	0.566	0.685	0.555	0.546
4511-2040-363	20	.019	0.635	0.558	0.558	0.752	0.752	0.558	1.098	0.978	1.097	0.967	0.958
4511-2041-363	20	.019	0.153	0.371	0.371	0.565	0.565	0.371	0.911	0.791	0.910	0.780	0.771
4511-2042-363	20	.019	0.927	0.864	0.864	1.058	1.058	0.864	1.404	1.284	1.403	1.273	1.264
4511-2043-363	20	.028	0.120	0.299	0.299	0.493	0.493	0.299	0.839	0.719	0.838	0.708	0.699
4511-2044-363	20	.019	0.299	0.118	0.118	0.312	0.312	0.118	0.658	0.538	0.657	0.527	0.518
4511-2045-363	20	.019	0.430	0.227	0.227	0.421	0.421	0.227	0.767	0.647	0.766	0.636	0.627
4511-2046-363	20	.019	0.253	NONE	NONE	0.175	0.175	NONE	NONE	NONE	0.520	0.390	NONE
4511-2047-363	20	.019	0.397	0.213	0.213	0.407	0.407	0.213	0.753	0.633	0.752	0.622	0.613
4511-2048-363	20	.019	0.377	0.293	0.293	0.487	0.487	0.293	0.833	0.713	0.832	0.702	0.693
4511-2049-363	20	.019	0.351	0.273	0.273	0.467	0.467	0.273	0.813	0.693	0.812	0.682	0.673
3511-2050-363	20	.025	0.948	0.723	0.723	0.917	0.917	0.723	1.263	1.143	1.262	1.132	1.123
3511-2051-363	20	.025	0.893	0.697	0.697	0.891	0.891	0.697	1.237	1.117	1.236	1.106	1.097
3511-2052-363	20	.032	0.893	0.697	0.697	0.891	0.891	0.697	1.237	1.117	1.236	1.106	1.097
4511-2053-363	20	.019	0.487	0.403	0.403	0.597	0.597	0.403	0.943	0.823	0.942	0.812	0.803
4511-2054-363	20	.019	0.422	0.150	0.150	0.344	0.344	0.150	0.690	0.570	0.689	0.559	0.550
4511-2055-363	20	.019	0.250	0.428	0.428	0.622	0.622	0.428	0.968	0.848	0.967	0.837	0.828
4511-2056-363	20	.019	0.275	NONE	NONE	0.222	0.222	NONE	NONE	NONE	0.567	0.437	NONE
4511-2057-363	20	.019	0.269	0.185	0.185	0.379	0.379	0.185	0.725	0.605	0.724	0.594	0.585



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 9

Aerotronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481
		±.001	Ref.										
4511-2058-363	20	.019	0.242	NONE	NONE	0.187	0.187	NONE	NONE	NONE	0.532	0.402	NONE
4511-2059-363	20	.019	0.444	0.375	0.375	0.569	0.569	0.375	0.915	0.795	0.914	0.784	0.775
3511-2060-363	20	.025	0.118	0.185	0.185	0.379	0.379	0.185	0.725	0.605	0.724	0.594	0.585
4511-2061-363	20	.025	0.138	0.205	0.205	0.399	0.399	0.205	0.745	0.625	0.744	0.614	0.605
4511-2062-363	20	.025	0.157	0.224	0.224	0.418	0.418	0.224	0.764	0.644	0.763	0.633	0.624
4511-2063-363	20	.025	0.177	0.244	0.244	0.438	0.438	0.244	0.784	0.664	0.783	0.653	0.644
4511-2064-363	20	.025	0.197	0.264	0.264	0.458	0.458	0.264	0.804	0.684	0.803	0.673	0.664
4511-2065-363	20	.025	0.217	0.284	0.284	0.478	0.478	0.284	0.824	0.704	0.823	0.693	0.684
4511-2066-363	20	.025	0.236	0.303	0.303	0.497	0.497	0.303	0.843	0.723	0.842	0.712	0.703
4511-2067-363	20	.025	0.118	0.218	0.218	0.412	0.412	0.218	0.758	0.638	0.757	0.627	0.618
4511-2068-363	20	.025	0.138	0.238	0.238	0.432	0.432	0.238	0.778	0.658	0.777	0.647	0.638
4511-2069-363	20	.025	0.157	0.257	0.257	0.451	0.451	0.257	0.797	0.677	0.796	0.666	0.657
4511-2070-363	20	.025	0.177	0.277	0.277	0.471	0.471	0.277	0.817	0.697	0.816	0.686	0.677
4511-2071-363	20	.025	0.197	0.297	0.297	0.491	0.491	0.297	0.837	0.717	0.836	0.706	0.697
4511-2072-363	20	.025	0.217	0.317	0.317	0.511	0.511	0.317	0.857	0.737	0.856	0.726	0.717
4511-2073-363	20	.025	0.236	0.336	0.336	0.530	0.530	0.336	0.876	0.756	0.875	0.745	0.736
4511-2074-363	20	.030	0.769	0.614	0.614	0.808	0.808	0.614	1.154	1.034	1.153	1.023	1.014
4511-2075-363	20	.039	0.280	0.259	0.259	0.453	0.453	0.259	0.799	0.679	0.798	0.668	0.659
4511-2076-363	20	.026	0.384	0.431	0.431	0.625	0.625	0.431	0.971	0.851	0.970	0.840	0.831
4511-2077-363	20	.019	0.642	0.558	0.558	0.752	0.752	0.558	1.098	0.978	1.097	0.967	0.958
4511-2078-363	20	.019	0.300	0.216	0.216	0.410	0.410	0.216	0.756	0.636	0.755	0.625	0.616
4511-2079-363	20	.019	0.435	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-2080-363	20	.025	0.237	NONE	NONE	0.185	0.185	NONE	NONE	NONE	0.530	0.400	NONE
4511-2081-363	20	.025	0.242	0.181	0.181	0.375	0.375	0.181	0.721	0.601	0.720	0.590	0.581
4511-2082-363	20	.025	0.383	0.111	0.111	0.305	0.305	0.111	0.651	0.531	0.650	0.520	0.511
4511-2083-363	20	.025	0.566	0.506	0.506	0.700	0.700	0.506	1.046	0.926	1.045	0.915	0.906
4511-2084-363	20	.025	0.945	0.723	0.723	0.917	0.917	0.723	1.263	1.143	1.262	1.132	1.123
4511-2085-363	20	.025	0.762	0.616	0.616	0.810	0.810	0.616	1.156	1.036	1.155	1.025	1.016
4511-2086-363	20	.025	0.320	0.178	0.178	0.372	0.372	0.178	0.718	0.598	0.717	0.587	0.578
4511-2087-363	20	.019	0.259	NONE	NONE	0.204	0.204	NONE	NONE	NONE	0.549	0.419	NONE
4511-2088-363	20	.019	0.233	0.092	0.092	0.286	0.286	0.092	0.632	0.512	0.631	0.501	0.492
4511-2089-363	20	.019	0.438	0.166	0.166	0.360	0.360	0.166	0.706	0.586	0.705	0.575	0.566
4511-2090-363	20	.019	0.213	0.219	0.219	0.413	0.413	0.219	0.759	0.639	0.758	0.628	0.619
4511-2091-363	20	.025	0.150	0.218	0.218	0.412	0.412	0.218	0.758	0.638	0.757	0.627	0.618
3511-2092-363	20	.025	0.490	0.418	0.418	0.612	0.612	0.418	0.958	0.838	0.957	0.827	0.818
4511-2093-363	20	.034	0.490	0.154	0.154	0.348	0.348	0.154	0.694	0.574	0.693	0.563	0.554



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 10

Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472	MS27664	MS27499	MS27508	MS27474	MS27472	MS27664	MS27499	MS27508	MS27474
		±.001	Ref.	MS27479	MS27497	MS27504 MS27513		MS27481	MS27479	MS27497	MS27504 MS27513		MS27481
4511-2094-363	20	.019	0.285	0.267	0.267	0.461	0.461	0.267	0.807	0.687	0.806	0.676	0.667
4511-2095-363	20	.019	0.225	0.141	0.141	0.335	0.335	0.141	0.681	0.561	0.680	0.550	0.541
4511-2096-363	20	.019	0.512	0.443	0.443	0.637	0.637	0.443	0.983	0.863	0.982	0.852	0.843
4511-2097-363	20	.019	0.559	0.490	0.490	0.684	0.684	0.490	1.030	0.910	1.029	0.899	0.890
4511-2098-363	20	.019	0.542	0.458	0.458	0.652	0.652	0.458	0.998	0.878	0.997	0.867	0.858
4511-2099-363	20	.019	0.415	0.258	0.258	0.452	0.452	0.258	0.798	0.678	0.797	0.667	0.658
4511-2002E-363	20	.019	0.090	0.168	0.168	0.362	0.362	0.168	0.708	0.588	0.707	0.577	0.568
4511-2003E-363	20	.019	0.115	0.168	0.168	0.362	0.362	0.168	0.708	0.588	0.707	0.577	0.568
4511-2004E-363	20	.019	0.261	0.115	0.115	0.309	0.309	0.115	0.655	0.535	0.654	0.524	0.515
4511-2005E-363	20	.019	0.285	0.303	0.303	0.497	0.497	0.303	0.843	0.723	0.842	0.712	0.703
4511-2006E-363	20	.019	0.271	0.319	0.319	0.513	0.513	0.319	0.859	0.739	0.858	0.728	0.719
4511-2007E-363	20	.019	0.545	0.293	0.293	0.487	0.487	0.293	0.833	0.713	0.832	0.702	0.693
4511-2008E-363	20	.019	0.295	0.473	0.473	0.667	0.667	0.473	1.013	0.893	1.012	0.882	0.873
4511-2010E-363	20	.019	0.220	0.428	0.428	0.622	0.622	0.428	0.968	0.848	0.967	0.837	0.828
4511-2011E-363	20	.019	0.095	0.638	0.638	0.832	0.832	0.638	1.178	1.058	1.177	1.047	1.038
4511-2012E-363	20	.019	0.333	0.081	0.081	0.275	0.275	0.081	0.621	0.501	0.620	0.490	0.481
4511-2013E-363	20	.040	0.250	0.047	0.467	0.661	0.661	0.467	0.587	0.887	1.006	0.876	0.867
4511-1600-364	16	.062	0.548	0.352	0.352	0.546	0.546	0.352	0.892	0.772	0.891	0.761	0.752
4511-1601-364	16	.062	0.342	0.341	0.341	0.535	0.535	0.341	0.881	0.761	0.880	0.750	0.741
4511-1602-364	16	.062	0.307	0.063	0.063	0.257	0.257	0.063	0.603	0.483	0.602	0.472	0.463
4511-1603-364	16	.048	0.547	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-1604-364	16	.062	0.387	0.113	0.113	0.307	0.307	0.113	0.653	0.533	0.652	0.522	0.513
4511-1605-364	16	.057	0.118	0.362	0.362	0.556	0.556	0.362	0.902	0.782	0.901	0.771	0.762
4511-1606-364	16	.050	0.170	0.283	0.283	0.477	0.477	0.283	0.823	0.703	0.822	0.692	0.683
4511-1607-364	16	.062	0.752	0.607	0.607	0.801	0.801	0.607	1.147	1.027	1.146	1.016	1.007
4511-1608-364	16	.062	0.090	0.156	0.156	0.350	0.350	0.156	0.696	0.576	0.695	0.565	0.556
4511-1609-364	16	.062	0.548	0.451	0.451	0.645	0.645	0.451	0.991	0.871	0.990	0.860	0.851
4511-1610-364	16	.025	0.436	0.352	0.352	0.546	0.546	0.352	0.892	0.772	0.891	0.761	0.752
4511-1611-364	16	.025	0.165	0.144	0.144	0.338	0.338	0.144	0.684	0.564	0.683	0.553	0.544
4511-1612-364	16	.025	0.200	0.179	0.179	0.373	0.373	0.179	0.719	0.599	0.718	0.588	0.579
4511-1613-364	16	.025	0.238	0.217	0.217	0.411	0.411	0.217	0.757	0.637	0.756	0.626	0.617
4511-1614-364	16	.062	0.225	NONE	NONE	0.147	0.147	NONE	NONE	NONE	0.492	0.362	NONE
4511-1615-364	16	.062	0.254	NONE	NONE	0.204	0.204	NONE	NONE	NONE	0.549	0.419	NONE
4511-1618-364	16	.025	0.085	0.223	0.223	0.417	0.417	0.223	0.763	0.643	0.762	0.632	0.623
4511-1620-364	16	.040	0.548	0.259	0.259	0.453	0.453	0.259	0.799	0.679	0.798	0.668	0.659
4511-1621-364	16	.040	0.629	0.340	0.340	0.534	0.534	0.340	0.880	0.760	0.879	0.749	0.740



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 11

Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481
		±.001	Ref.										
4511-1630-364	16	.035	0.135	NONE	NONE	0.150	0.150	NONE	NONE	NONE	0.495	0.365	NONE
4511-1640-364	16	.062	0.118	0.185	0.185	0.379	0.379	0.185	0.725	0.605	0.724	0.594	0.585
4511-1641-364	16	.062	0.138	0.205	0.205	0.399	0.399	0.205	0.745	0.625	0.744	0.614	0.605
4511-1642-364	16	.062	0.157	0.224	0.224	0.418	0.418	0.224	0.764	0.644	0.763	0.633	0.624
4511-1643-364	16	.062	0.177	0.244	0.244	0.438	0.438	0.244	0.784	0.664	0.783	0.653	0.644
4511-1644-364	16	.062	0.197	0.264	0.264	0.458	0.458	0.264	0.804	0.684	0.803	0.673	0.664
4511-1645-364	16	.062	0.217	0.284	0.284	0.478	0.478	0.284	0.824	0.704	0.823	0.693	0.684
4511-1646-364	16	.062	0.236	0.303	0.303	0.497	0.497	0.303	0.843	0.723	0.842	0.712	0.703
4511-1647-364	16	.062	0.118	0.218	0.218	0.412	0.412	0.218	0.758	0.638	0.757	0.627	0.618
4511-1648-364	16	.062	0.138	0.238	0.238	0.432	0.432	0.238	0.778	0.658	0.777	0.647	0.638
4511-1649-364	16	.062	0.157	0.257	0.257	0.451	0.451	0.257	0.797	0.677	0.796	0.666	0.657
4511-1650-364	16	.062	0.177	0.277	0.277	0.471	0.471	0.277	0.817	0.697	0.816	0.686	0.677
4511-1651-364	16	.062	0.197	0.297	0.297	0.491	0.491	0.297	0.837	0.717	0.836	0.706	0.697
4511-1652-364	16	.062	0.217	0.317	0.317	0.511	0.511	0.317	0.857	0.737	0.856	0.726	0.717
4511-1653-364	16	.062	0.236	0.336	0.336	0.530	0.530	0.336	0.876	0.756	0.875	0.745	0.736
4511-1654-364	16	.048	0.893	0.697	0.697	0.891	0.891	0.697	1.237	1.117	1.236	1.106	1.097
4511-1655-364	16	.060	0.769	0.614	0.614	0.808	0.808	0.614	1.154	1.034	1.153	1.023	1.014
4511-1656-364	16	.062	0.301	0.229	0.229	0.423	0.423	0.229	0.769	0.649	0.768	0.638	0.629
4511-1657-364	16	.062	0.434	0.266	0.266	0.460	0.460	0.266	0.806	0.686	0.805	0.675	0.666
4511-1658-364	16	.039	0.120	0.299	0.299	0.493	0.493	0.299	0.839	0.719	0.838	0.708	0.699
4511-1659-364	16	.062	0.280	0.281	0.281	0.475	0.475	0.281	0.821	0.701	0.820	0.690	0.681
4511-1660-364	16	.062	0.213	0.219	0.219	0.413	0.413	0.219	0.759	0.639	0.758	0.628	0.619
4511-1661-364	16	.062	0.413	0.225	0.225	0.419	0.419	0.225	0.765	0.645	0.764	0.634	0.625
4511-1662-364	16	.062	0.239	0.051	0.051	0.245	0.245	0.051	0.591	0.471	0.590	0.460	0.451
4511-1663-364	16	.062	0.428	0.239	0.239	0.433	0.433	0.239	0.779	0.659	0.778	0.648	0.639
4511-1664-364	16	.062	0.179	NONE	NONE	0.177	0.177	NONE	NONE	NONE	0.522	0.392	NONE
4511-1665-364	16	.062	0.653	0.457	0.457	0.651	0.651	0.457	0.997	0.877	0.996	0.866	0.857
4511-1666-364	16	.062	0.420	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-1667-364	16	.062	0.330	0.261	0.261	0.455	0.455	0.261	0.801	0.681	0.800	0.670	0.661
4511-1668-364	16	.062	0.247	0.080	0.080	0.274	0.274	0.080	0.620	0.500	0.619	0.489	0.480
4511-1669-364	16	.062	0.502	0.345	0.345	0.539	0.539	0.345	0.885	0.765	0.884	0.754	0.745
4511-1670-364	16	.062	0.635	0.558	0.558	0.752	0.752	0.558	1.098	0.978	1.097	0.967	0.958
4511-1671-364	16	.062	0.267	0.073	0.073	0.267	0.267	0.073	0.613	0.493	0.612	0.482	0.473
4511-1672-364	16	.062	0.573	0.505	0.505	0.699	0.699	0.505	1.045	0.925	1.044	0.914	0.905
4511-1673-364	16	.062	0.250	0.428	0.428	0.622	0.622	0.428	0.968	0.848	0.967	0.837	0.828
4511-1674-364	16	.062	0.378	0.232	0.232	0.426	0.426	0.232	0.772	0.652	0.771	0.641	0.632



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 12

Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481
		±.001	Ref.										
4511-1675-364	16	.062	0.315	0.158	0.158	0.352	0.352	0.158	0.698	0.578	0.697	0.567	0.558
4511-1676-364	16	.062	0.380	0.559	0.559	0.753	0.753	0.559	1.099	0.979	1.098	0.968	0.959
4511-1677-364	16	.062	0.450	0.293	0.293	0.487	0.487	0.293	0.833	0.713	0.832	0.702	0.693
4511-1678-364	16	.062	0.322	0.128	0.128	0.322	0.322	0.128	0.668	0.548	0.667	0.537	0.528
4511-1679-364	16	.062	0.385	NONE	NONE	0.223	0.223	NONE	NONE	NONE	0.568	0.438	NONE
4511-1680-364	16	.062	0.522	0.376	0.376	0.570	0.570	0.376	0.916	0.796	0.915	0.785	0.776
4511-1681-364	16	.062	0.395	0.201	0.201	0.395	0.395	0.201	0.741	0.621	0.740	0.610	0.601
4511-1682-364	16	.062	0.301	0.234	0.234	0.428	0.428	0.234	0.774	0.654	0.773	0.643	0.634
4511-1683-364	16	.062	0.445	0.251	0.251	0.445	0.445	0.251	0.791	0.671	0.790	0.660	0.651
4511-1684-364	16	.062	0.852	0.790	0.790	0.984	0.984	0.790	1.330	1.210	1.329	1.199	1.190
4511-1685-364	16	.062	0.397	0.313	0.313	0.507	0.507	0.313	0.853	0.733	0.852	0.722	0.713
4511-1686-364	16	.062	0.945	0.723	0.723	0.917	0.917	0.723	1.263	1.143	1.262	1.132	1.123
4511-1687-364	16	.062	0.813	0.744	0.744	0.938	0.938	0.744	1.284	1.164	1.283	1.153	1.144
4511-1688-364	16	.062	0.512	0.443	0.443	0.637	0.637	0.443	0.983	0.863	0.982	0.852	0.843
4511-1689-364	16	.062	0.190	0.209	0.209	0.403	0.403	0.209	0.749	0.629	0.748	0.618	0.609
4511-1690-364	16	.054	0.138	0.154	0.154	0.348	0.348	0.154	0.694	0.574	0.693	0.563	0.554
4511-1691-364	16	.040	0.200	0.176	0.176	0.370	0.370	0.176	0.716	0.596	0.715	0.585	0.576
4511-1692-364	16	.062	0.250	0.467	0.467	0.661	0.661	0.047	1.007	0.887	1.006	0.876	0.447
4511-1200-365	12	.081	0.643	0.351	0.351	0.545	0.545	0.351	0.891	0.771	0.890	0.760	0.751
4511-1201-365	12	.081	0.473	0.181	0.181	0.375	0.375	0.181	0.721	0.601	0.720	0.590	0.581
4511-1202-365	12	.081	0.243	NONE	NONE	0.145	0.145	NONE	NONE	NONE	0.490	0.360	NONE
4511-1203-365	12	.081	0.523	0.231	0.231	0.425	0.425	0.231	0.771	0.651	0.770	0.640	0.631
4511-1204-365	12	.081	0.157	0.214	0.214	0.408	0.408	0.214	0.754	0.634	0.753	0.623	0.614
4511-1205-365	12	.081	0.213	0.338	0.338	0.532	0.532	0.338	0.878	0.758	0.877	0.747	0.738
4511-1206-365	12	.081	0.244	0.299	0.299	0.493	0.493	0.299	0.839	0.719	0.838	0.708	0.699
4511-1207-365	12	.081	.880	0.583	0.583	0.777	0.777	0.583	1.123	1.003	1.122	0.992	0.983
4511-1208-365	12	.080	.706	0.460	0.460	0.654	0.654	0.460	1.000	0.880	0.999	0.869	0.860
4511-1210-365	12	.081	0.145	0.144	0.144	0.338	0.338	0.144	0.684	0.564	0.683	0.553	0.544
4511-1211-365	12	.081	0.180	0.179	0.179	0.373	0.373	0.179	0.719	0.599	0.718	0.588	0.579
4511-1230-365	12	.081	0.300	0.524	0.524	0.718	0.718	0.524	1.064	0.944	1.063	0.933	0.924
4511-1231-365	12	.081	0.590	0.596	0.596	0.790	0.790	0.596	1.136	1.016	1.135	1.005	0.996
4511-1240-365	12	.081	0.118	0.185	0.185	0.379	0.379	0.185	0.725	0.605	0.724	0.594	0.585
4511-1241-365	12	.081	0.138	0.205	0.205	0.399	0.399	0.205	0.745	0.625	0.744	0.614	0.605
4511-1242-365	12	.081	0.157	0.224	0.224	0.418	0.418	0.224	0.764	0.644	0.763	0.633	0.624
4511-1243-365	12	.081	0.177	0.244	0.244	0.438	0.438	0.244	0.784	0.664	0.783	0.653	0.644
4511-1244-365	12	.081	0.197	0.264	0.264	0.458	0.458	0.264	0.804	0.684	0.803	0.673	0.664



5331 Derry Ave, Suite O, Agoura Hills, CA 91301

Rev.K July 09, 2021

38999 SERIES II PCB TAIL PINS (inches) with FLANGE Stick-Out

Page 13

Aerotronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR					CONTACT EXTENSION FROM FLANGE				
		O.D.	Length	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481	MS27472 MS27479	MS27664 MS27497	MS27499 MS27504 MS27513	MS27508	MS27474 MS27481
		±.001	Ref.										
4511-1245-365	12	.081	0.217	0.284	0.284	0.478	0.478	0.284	0.824	0.704	0.823	0.693	0.684
4511-1246-365	12	.081	0.236	0.303	0.303	0.497	0.497	0.303	0.843	0.723	0.842	0.712	0.703
4511-1247-365	12	.081	0.118	0.218	0.218	0.412	0.412	0.218	0.758	0.638	0.757	0.627	0.618
4511-1248-365	12	.081	0.138	0.238	0.238	0.432	0.432	0.238	0.778	0.658	0.777	0.647	0.638
4511-1249-365	12	.081	0.157	0.257	0.257	0.451	0.451	0.257	0.797	0.677	0.796	0.666	0.657
4511-1250-365	12	.081	0.177	0.277	0.277	0.471	0.471	0.277	0.817	0.697	0.816	0.686	0.677
4511-1251-365	12	.081	0.197	0.297	0.297	0.491	0.491	0.297	0.837	0.717	0.836	0.706	0.697
4511-1252-365	12	.081	0.217	0.317	0.317	0.511	0.511	0.317	0.857	0.737	0.856	0.726	0.717
4511-1253-365	12	.081	0.236	0.336	0.336	0.530	0.530	0.336	0.876	0.756	0.875	0.745	0.736
4511-1254-365	12	.094	0.242	0.299	0.299	0.493	0.493	0.299	0.839	0.719	0.838	0.708	0.699
4511-1255-365	12	.081	0.280	0.531	0.531	0.725	0.725	0.531	1.071	0.951	1.070	0.940	0.931
4511-1256-365	12	.081	0.265	0.392	0.392	0.586	0.586	0.392	0.932	0.812	0.931	0.801	0.792
4511-1257-365	12	.081	0.250	0.467	0.467	0.661	0.661	0.467	1.007	0.887	1.006	0.876	0.867