



Aerotrónica Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR				CONTACT EXTENSION FROM FLANGE			
		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-2201-360	22D	.020	0.420	0.334	0.333	0.333	0.300	0.764	0.823	0.698	0.790
3511-2202-360	22D	.015	0.240	0.052	0.051	0.051	NONE	0.482	0.541	0.416	NONE
3511-2203-360	22D	.015	0.340	0.152	0.151	0.151	0.118	0.582	0.641	0.516	0.608
3511-2204-360	22D	.015	0.440	0.252	0.251	0.251	0.218	0.682	0.741	0.616	0.708
4511-2205-360	22D	.019	0.540	0.352	0.351	0.351	0.318	0.782	0.841	0.716	0.808
3511-2205-360	22D	.019	0.540	0.352	0.351	0.351	0.318	0.782	0.841	0.716	0.808
4511-2206-360	22D	.020	0.538	0.519	0.518	0.518	0.485	0.949	1.008	0.883	0.975
4511-2207-360	22D	.019	0.232	0.214	0.213	0.213	0.180	0.644	0.703	0.578	0.670
4511-2208-360	22D	.025	0.245	0.360	0.359	0.359	0.326	0.790	0.849	0.724	0.816
4511-2210-360	22D	.020	0.437	0.263	0.262	0.262	0.229	0.693	0.752	0.627	0.719
4511-2211-360	22D	.019	0.266	0.180	0.179	0.179	0.146	0.610	0.669	0.544	0.636
4511-2212-360	22D	.020	0.355	0.142	0.141	0.141	0.108	0.572	0.631	0.506	0.598
4511-2213-360	22D	.021	0.345	0.327	0.326	0.326	0.293	0.757	0.816	0.691	0.783
4511-2214-360	22D	.019	0.145	0.128	0.127	0.127	0.094	0.558	0.617	0.492	0.584
4511-2215-360	22D	.021	0.283	0.265	0.264	0.264	0.231	0.695	0.754	0.629	0.721
4511-2217-360	22D	.019	0.178	0.448	0.447	0.447	0.414	0.878	0.937	0.812	0.904
4511-2218-360	22D	.020	0.336	0.347	0.346	0.346	0.313	0.777	0.836	0.711	0.803
4511-2220-360	22D	.019	0.276	0.269	0.268	0.268	0.235	0.699	0.758	0.633	0.725
4511-2221-360	22D	.020	0.283	1.034	1.033	1.033	1.000	1.464	1.523	1.398	1.490
4511-2223-360	22D	.025	0.365	0.455	0.454	0.454	0.421	0.885	0.944	0.819	0.911
4511-2225-360	22D	.019	0.492	0.408	0.407	0.407	0.374	0.838	0.897	0.772	0.864



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Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR				CONTACT EXTENSION FROM FLANGE			
		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-2227-360	22D	.027	0.227	0.456	0.455	0.455	0.422	0.886	0.945	0.820	0.912
4511-2229-360	22D	.030	0.300	0.348	0.347	0.347	0.314	0.778	0.837	0.712	0.804
4511-2230-360	22D	.020	0.220	0.038	0.037	0.037	NONE	0.468	0.527	0.402	NONE
4511-2231-360	22D	.020	0.407	0.235	0.234	0.234	0.201	0.665	0.724	0.599	0.691
4511-2232-360	22D	.020	0.450	0.218	0.217	0.217	0.184	0.648	0.707	0.582	0.674
4511-2233-360	22D	.020	0.440	0.206	0.205	0.205	0.172	0.636	0.695	0.570	0.662
4511-2234-360	22D	.020	0.277	0.105	0.104	0.104	0.071	0.535	0.594	0.469	0.561
4511-2236-360	22D	.019	0.180	0.163	0.162	0.162	0.129	0.593	0.652	0.527	0.619
4511-2237-360	22D	.030	0.763	0.593	0.592	0.592	0.559	1.023	1.082	0.957	1.049
4511-2238-360	22D	.030	0.893	0.723	0.722	0.722	0.689	1.153	1.212	1.087	1.179
4511-2239-360	22D	.020	0.169	0.191	0.190	0.190	0.157	0.621	0.680	0.555	0.647
4511-2241-360	22D	.028	0.157	0.222	0.221	0.221	0.188	0.652	0.711	0.586	0.678
4511-2243-360	22D	.019	0.157	0.197	0.196	0.196	0.163	0.627	0.686	0.561	0.653
4511-2244-360	22D	.020	0.180	0.162	0.161	0.161	0.128	0.592	0.651	0.526	0.618
4511-2245-360	22D	.020	0.121	0.167	0.166	0.166	0.133	0.597	0.656	0.531	0.623
4511-2246-360	22D	.019	0.094	0.076	0.075	0.075	0.042	0.506	0.565	0.440	0.532
4511-2247-360	22D	.025	0.329	0.390	0.389	0.389	0.356	0.820	0.879	0.754	0.846
4511-2248-360	22D	.032	0.400	0.401	0.400	0.400	0.367	0.831	0.890	0.765	0.857
4511-2249-360	22D	.022	0.170	0.249	0.248	0.248	0.215	0.679	0.738	0.613	0.705
3511-2250-360	22D	.019	0.544	0.463	0.462	0.462	0.429	0.893	0.952	0.827	0.919
4511-2251-360	22D	.019	0.236	0.401	0.400	0.400	0.367	0.831	0.890	0.765	0.857
4511-2252-360	22D	.019	0.205	0.729	0.728	0.728	0.695	1.159	1.218	1.093	1.185
3511-2253-360	22D	.019	0.500	0.597	0.596	0.596	0.563	1.027	1.086	0.961	1.053
4511-2254-360	22D	.025	0.145	0.263	0.262	0.262	0.229	0.693	0.752	0.627	0.719
3511-2255-360	22D	.025	0.445	0.565	0.564	0.564	0.531	0.995	1.054	0.929	1.021
4511-2256-360	22D	.025	0.345	0.465	0.464	0.464	0.431	0.895	0.954	0.829	0.921
4511-2257-360	22D	.029	0.118	0.346	0.345	0.345	0.312	0.776	0.835	0.710	0.802
3511-2258-360	22D	.025	0.545	0.661	0.660	0.660	0.627	1.091	1.150	1.025	1.117
3511-2259-360	22D	.031	0.762	0.593	0.592	0.592	0.559	1.023	1.082	0.957	1.049
3511-2260-360	22D	.025	0.515	0.261	0.260	0.260	0.227	0.691	0.750	0.625	0.717
4511-2261-360	22D	.030	0.148	0.320	0.319	0.319	0.286	0.750	0.809	0.684	0.776
4511-2262-360	22D	.025	0.137	0.290	0.289	0.289	0.256	0.720	0.779	0.654	0.746
4511-2263-360	22D	.019	0.251	0.553	0.552	0.552	0.519	0.983	1.042	0.917	1.009
4511-2264-360	22D	.019	0.267	0.097	0.096	0.096	0.063	0.527	0.586	0.461	0.553
4511-2265-360	22D	.019	0.410	0.401	0.400	0.400	0.367	0.831	0.890	0.765	0.857
4511-2266-360	22D	.019	0.345	0.177	0.176	0.176	0.143	0.607	0.666	0.541	0.633
4511-2267-360	22D	.019	0.430	0.262	0.261	0.261	0.228	0.692	0.751	0.626	0.718



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Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR				CONTACT EXTENSION FROM FLANGE			
		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-2270-360	22D	.019	0.165	0.319	0.318	0.318	0.285	0.749	0.808	0.683	0.775
4511-2271-360	22D	.025	0.630	0.748	0.747	0.747	0.714	1.178	1.237	1.112	1.204
3511-2272-360	22D	.019	0.769	0.600	0.599	0.599	0.566	1.030	1.089	0.964	1.056
3511-2273-360	22D	.019	0.509	0.244	0.243	0.243	0.210	0.674	0.733	0.608	0.700
4511-2275-360	22D	.019	0.200	0.250	0.249	0.249	0.216	0.680	0.739	0.614	0.706
4511-2276-360	22D	.019	0.360	0.355	0.354	0.354	0.321	0.785	0.844	0.719	0.811
4511-2278-360	22D	.019	0.240	0.241	0.240	0.240	0.207	0.671	0.730	0.605	0.697
4511-2279-360	22D	.026	0.182	0.145	0.144	0.144	0.111	0.575	0.634	0.509	0.601
3511-2280-360	22D	.019	0.578	0.493	0.492	0.492	0.459	0.923	0.982	0.857	0.949
3511-2281-360	22D	.019	0.522	0.437	0.436	0.436	0.403	0.867	0.926	0.801	0.893
4511-2282-360	22D	.019	0.240	0.217	0.216	0.216	0.183	0.647	0.706	0.581	0.673
4511-2283-360	22D	.019	0.407	0.234	0.233	0.233	0.200	0.664	0.723	0.598	0.690
4511-2285-360	22D	.019	0.205	0.872	0.871	0.871	0.838	1.302	1.361	1.236	1.328
4511-2286-360	22D	.019	0.324	1.229	1.228	1.228	1.195	1.659	1.718	1.593	1.685
4511-2287-360	22D	.019	0.411	0.238	0.237	0.237	0.204	0.668	0.727	0.602	0.694
4511-2288-360	22D	.019	0.240	0.217	0.216	0.216	0.183	0.647	0.706	0.581	0.673
4511-2289-360	22D	.019	0.513	0.975	0.974	0.974	0.941	1.405	1.464	1.339	1.431
4511-2291-360	22D	.019	0.200	0.057	0.056	0.056	NONE	0.487	0.546	0.421	NONE
4511-2293-360	22D	.019	0.643	0.272	0.271	0.271	0.238	0.702	0.761	0.636	0.728
4511-2294-360	22D	.019	0.292	0.207	0.206	0.206	0.173	0.637	0.696	0.571	0.663
4511-2295-360	22D	.019	0.254	0.201	0.200	0.200	0.167	0.631	0.690	0.565	0.657
4511-2296-360	22D	.019	0.086	0.145	0.144	0.144	0.111	0.575	0.634	0.509	0.601
4511-2297-360	22D	.019	0.350	0.174	0.173	0.173	0.140	0.604	0.663	0.538	0.630
4511-2298-360	22D	.019	0.467	0.382	0.381	0.381	0.348	0.812	0.871	0.746	0.838
4511-2299-360	22D	.019	0.290	0.042	0.041	0.041	NONE	0.472	0.531	0.406	NONE
4511-2253B-360	22D	.030	0.250	0.244	0.243	0.243	0.210	0.674	0.733	0.608	0.700
4511-2254B-360	22D	.031	0.197	0.189	0.188	0.188	0.155	0.619	0.678	0.553	0.645
4511-2255B-360	22D	.019	0.170	0.307	0.306	0.306	0.273	0.737	0.796	0.671	0.763
4511-2256B-360	22D	.019	0.256	0.383	0.382	0.382	0.349	0.813	0.872	0.747	0.839
4511-2257B-360	22D	.019	0.310	0.287	0.286	0.286	0.253	0.717	0.776	0.651	0.743
4511-2258B-360	22D	.019	0.148	0.065	0.064	0.064	0.031	0.495	0.554	0.429	0.521
4511-2259B-360	22D	.019	0.450	0.168	0.167	0.167	0.134	0.598	0.657	0.532	0.624
4511-2260B-360	22D	.019	0.470	0.297	0.296	0.296	0.263	0.727	0.786	0.661	0.753
4511-2261B-360	22D	.019	0.285	0.287	0.286	0.286	0.253	0.717	0.776	0.651	0.743
4511-2262B-360	22D	.019	0.285	0.281	0.280	0.280	0.247	0.711	0.770	0.645	0.737
4511-2263B-360	22D	.019	0.265	0.180	0.179	0.179	0.146	0.610	0.669	0.544	0.636
4511-2264B-360	22D	.019	0.118	0.168	0.167	0.167	0.134	0.598	0.657	0.532	0.624



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Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR				CONTACT EXTENSION FROM FLANGE			
		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-2265B-360	22D	.019	0.492	0.408	0.407	0.407	0.374	0.838	0.897	0.772	0.864
4511-2266B-360	22D	.019	0.573	0.489	0.488	0.488	0.455	0.919	0.978	0.853	0.945
4511-2267B-360	22D	.019	0.443	0.359	0.358	0.358	0.325	0.789	0.848	0.723	0.815
4511-2268B-360	22D	.019	0.355	0.849	0.848	0.848	0.815	1.279	1.338	1.213	1.305
4511-2269B-360	22D	.019	0.315	0.142	0.141	0.141	0.108	0.572	0.631	0.506	0.598
4511-2270B-360	22D	.019	0.100	0.150	0.149	0.149	0.116	0.580	0.639	0.514	0.606
4511-2271B-360	22D	.019	0.285	0.267	0.266	0.266	0.233	0.697	0.756	0.631	0.723
4511-2272B-360	22D	.019	0.598	0.447	0.446	0.446	0.413	0.877	0.936	0.811	0.903
4511-2274B-360	22D	.019	0.446	0.277	0.276	0.276	0.243	0.707	0.766	0.641	0.733
4511-2275B-360	22D	.019	0.465	0.292	0.291	0.291	0.258	0.722	0.781	0.656	0.748
4511-2276B-360	22D	.019	0.438	0.537	0.536	0.536	0.503	0.967	1.026	0.901	0.993
4511-2277B-360	22D	.019	0.745	1.200	1.199	1.199	1.166	1.630	1.689	1.564	1.656
4511-2278B-360	22D	.019	0.426	0.253	0.252	0.252	0.219	0.683	0.742	0.617	0.709
4511-2279B-360	22D	.019	0.391	0.306	0.305	0.305	0.272	0.736	0.795	0.670	0.762
4511-2281B-360	22D	.019	0.208	0.193	0.192	0.192	0.159	0.623	0.682	0.557	0.649
4511-2282B-360	22D	.019	0.157	0.464	0.463	0.463	0.430	0.894	0.953	0.828	0.920
4511-2283B-360	22D	.019	0.187	0.102	0.101	0.101	0.068	0.532	0.591	0.466	0.558
4511-2284B-360	22D	.019	0.316	0.108	0.107	0.107	0.074	0.538	0.597	0.472	0.564
4511-2285B-360	22D	.019	0.194	0.358	0.357	0.357	0.324	0.788	0.847	0.722	0.814
4511-2286B-360	22D	.019	0.192	0.387	0.386	0.386	0.353	0.817	0.876	0.751	0.843
4511-2287B-360	22D	.019	0.420	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-2289B-360	22D	.019	0.250	0.552	0.551	0.551	0.518	0.982	1.041	0.916	1.008
4511-2290B-360	22D	.019	0.223	0.040	0.039	0.039	NONE	0.470	0.529	0.404	NONE
4511-2293B-360	22D	.019	0.100	0.152	0.151	0.151	0.118	0.582	0.641	0.516	0.608
4511-2294B-360	22D	.019	0.430	0.342	0.341	0.341	0.308	0.772	0.831	0.706	0.798
4511-2295B-360	22D	.019	0.227	0.209	0.208	0.208	0.175	0.639	0.698	0.573	0.665
4511-2297B-360	22D	.019	0.512	0.427	0.426	0.426	0.393	0.857	0.916	0.791	0.883
4511-2298B-360	22D	.019	0.284	0.196	0.195	0.195	0.162	0.626	0.685	0.560	0.652
4511-2299B-360	22D	.019	0.342	0.325	0.324	0.324	0.291	0.755	0.814	0.689	0.781
4511-2200-361	22M	.020	0.450	0.207	0.206	0.206	0.173	0.637	0.696	0.571	0.663
4511-2201-361	22M	.022	0.187	0.304	0.303	0.303	0.270	0.734	0.793	0.668	0.760
3511-2202-361	22M	.019	0.570	0.510	0.509	0.509	0.476	0.940	0.999	0.874	0.966
4511-2202-361	22M	.019	0.570	0.510	0.509	0.509	0.476	0.940	0.999	0.874	0.966
1511-2203-361	22M	.019	0.378	0.216	0.215	0.215	0.182	0.646	0.705	0.580	0.672
3511-2203-361	22M	.019	0.378	0.216	0.215	0.215	0.182	0.646	0.705	0.580	0.672
4511-2203-361	22M	.019	0.378	0.216	0.215	0.215	0.182	0.646	0.705	0.580	0.672
4511-2204-361	22M	.019	0.305	0.909	0.908	0.908	0.875	1.339	1.398	1.273	1.365



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Aerotrronics Pin Part Number	Pin Type	PCB Tail		CONTACT EXTENSION FROM REAR				CONTACT EXTENSION FROM FLANGE			
		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-2205-361	22M	.019	0.305	0.047	0.046	0.046	NONE	0.477	0.536	0.411	NONE
1511-2206-361	22M	.019	0.489	0.328	0.327	0.327	0.294	0.758	0.817	0.692	0.784
3511-2206-361	22M	.019	0.489	0.328	0.327	0.327	0.294	0.758	0.817	0.692	0.784
4511-2206-361	22M	.019	0.489	0.328	0.327	0.327	0.294	0.758	0.817	0.692	0.784
3511-2207-361	22M	.019	0.764	0.679	0.678	0.678	0.645	1.109	1.168	1.043	1.135
4511-2207-361	22M	.019	0.764	0.679	0.678	0.678	0.645	1.109	1.168	1.043	1.135
4511-2208-361	22M	.019	0.200	0.057	0.056	0.056	NONE	0.487	0.546	0.421	NONE
3511-2211-361	22M	.019	0.300	0.088	0.087	0.087	0.054	0.518	0.577	0.452	0.544
4511-2211-361	22M	.019	0.300	0.088	0.087	0.087	0.054	0.518	0.577	0.452	0.544
3511-2212-361	22M	.020	0.352	0.141	0.140	0.140	0.107	0.571	0.630	0.505	0.597
4511-2213-361	22M	.019	0.444	0.277	0.276	0.276	0.243	0.707	0.766	0.641	0.733
4511-2214-361	22M	.019	0.090	0.317	0.316	0.316	0.283	0.747	0.806	0.681	0.773
1511-2216-361	22M	.019	0.352	0.182	0.181	0.181	0.148	0.612	0.671	0.546	0.638
4511-2217-361	22M	.019	0.118	0.169	0.168	0.168	0.135	0.599	0.658	0.533	0.625
4511-2218-361	22M	.019	0.138	0.189	0.188	0.188	0.155	0.619	0.678	0.553	0.645
4511-2219-361	22M	.019	0.157	0.208	0.207	0.207	0.174	0.638	0.697	0.572	0.664
4511-2221-361	22M	.019	0.177	0.228	0.227	0.227	0.194	0.658	0.717	0.592	0.684
4511-2223-361	22M	.019	0.197	0.248	0.247	0.247	0.214	0.678	0.737	0.612	0.704
4511-2225-361	22M	.019	0.217	0.268	0.267	0.267	0.234	0.698	0.757	0.632	0.724
4511-2226-361	22M	.019	0.573	0.489	0.488	0.488	0.455	0.919	0.978	0.853	0.945
4511-2227-361	22M	.019	0.236	0.287	0.286	0.286	0.253	0.717	0.776	0.651	0.743
4511-2228-361	22M	.019	0.267	0.261	0.260	0.260	0.227	0.691	0.750	0.625	0.717
4511-2229-361	22M	.020	0.286	0.277	0.276	0.276	0.243	0.707	0.766	0.641	0.733
3591-2231-361	22M	.018	0.643	0.272	0.271	0.271	0.238	0.702	0.761	0.636	0.728
3591-2234-361	22M	.018	0.643	0.272	0.271	0.271	0.238	0.702	0.761	0.636	0.728
4511-2240-361	22M	.019	0.118	0.202	0.201	0.201	0.168	0.632	0.691	0.566	0.658
4511-2241-361	22M	.019	0.138	0.222	0.221	0.221	0.188	0.652	0.711	0.586	0.678
4511-2242-361	22M	.019	0.157	0.241	0.240	0.240	0.207	0.671	0.730	0.605	0.697
4511-2243-361	22M	.019	0.177	0.261	0.260	0.260	0.227	0.691	0.750	0.625	0.717
4511-2244-361	22M	.019	0.197	0.281	0.280	0.280	0.247	0.711	0.770	0.645	0.737
4511-2245-361	22M	.019	0.217	0.301	0.300	0.300	0.267	0.731	0.790	0.665	0.757
4511-2246-361	22M	.019	0.236	0.320	0.319	0.319	0.286	0.750	0.809	0.684	0.776
4511-2247-361	22M	.020	0.769	0.598	0.597	0.597	0.564	1.028	1.087	0.962	1.054
4511-2248-361	22M	.019	0.318	0.450	0.449	0.449	0.416	0.880	0.939	0.814	0.906
4511-2249-361	22M	.019	0.413	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
1511-2250-361	22M	.019	0.502	0.244	0.243	0.243	0.210	0.674	0.733	0.608	0.700
3511-2250-361	22M	.019	0.502	0.244	0.243	0.243	0.210	0.674	0.733	0.608	0.700



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		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-2251-361	22M	.019	0.266	0.104	0.103	0.103	0.070	0.534	0.593	0.468	0.560
1511-2254-361	22M	.019	0.762	0.600	0.599	0.599	0.566	1.030	1.089	0.964	1.056
3511-2254-361	22M	.019	0.762	0.600	0.599	0.599	0.566	1.030	1.089	0.964	1.056
4511-2255-361	22M	.019	0.216	0.138	0.137	0.137	0.104	0.568	0.627	0.502	0.594
3511-2259-361	22M	.019	0.564	0.479	0.478	0.478	0.445	0.909	0.968	0.843	0.935
4511-2260-361	22M	.029	0.280	0.243	0.242	0.242	0.209	0.673	0.732	0.607	0.699
4511-2263-361	22M	.019	0.235	0.149	0.148	0.148	0.115	0.579	0.638	0.513	0.605
4511-2264-361	22M	.019	0.268	0.400	0.399	0.399	0.366	0.830	0.889	0.764	0.856
3511-2266-361	22M	.019	0.631	0.462	0.461	0.461	0.428	0.892	0.951	0.826	0.918
4511-2267-361	22M	.019	0.118	0.242	0.241	0.241	0.208	0.672	0.731	0.606	0.698
4511-2268-361	22M	.019	0.330	0.245	0.244	0.244	0.211	0.675	0.734	0.609	0.701
4511-2000-363	20	.025	0.297	0.218	0.217	0.217	0.184	0.648	0.707	0.582	0.674
4511-2001-363	20	.026	0.200	0.303	0.302	0.302	0.269	0.733	0.792	0.667	0.759
1511-2002-363	20	.019	0.432	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-2002-363	20	.019	0.435	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-2003-363	20	.019	0.136	0.130	0.129	0.129	0.096	0.560	0.619	0.494	0.586
4511-2004-363	20	.020	0.250	0.277	0.276	0.276	0.243	0.707	0.766	0.641	0.733
4511-2006-363	20	.019	0.300	0.200	0.199	0.199	0.166	0.630	0.689	0.564	0.656
4511-2007-363	20	.025	0.377	0.136	0.135	0.135	0.102	0.566	0.625	0.500	0.592
4511-2008-363	20	.025	0.343	0.047	0.046	0.046	NONE	0.477	0.536	0.411	NONE
4511-2009-363	20	.025	0.401	0.138	0.137	0.137	0.104	0.568	0.627	0.502	0.594
3511-2010-363	20	.019	0.085	0.207	0.206	0.206	0.173	0.637	0.696	0.571	0.663
1511-2011-363	20	.019	0.406	0.209	0.208	0.208	0.175	0.639	0.698	0.573	0.665
1511-2012-363	20	.019	0.410	0.125	0.124	0.124	0.091	0.555	0.614	0.489	0.581
1511-2013-363	20	.019	0.335	0.047	0.046	0.046	NONE	0.477	0.536	0.411	NONE
1511-2015-363	20	.019	0.934	0.646	0.645	0.645	0.612	1.076	1.135	1.010	1.102
1511-2016-363	20	.019	0.200	0.057	0.056	0.056	NONE	0.487	0.546	0.421	NONE
1511-2017-363	20	.019	0.481	0.200	0.199	0.199	0.166	0.630	0.689	0.564	0.656
1511-2018-363	20	.019	0.342	0.242	0.241	0.241	0.208	0.672	0.731	0.606	0.698
4511-2021-363	20	.020	0.250	0.153	0.152	0.152	0.119	0.583	0.642	0.517	0.609
4511-2022-363	20	.020	0.250	0.277	0.276	0.276	0.243	0.707	0.766	0.641	0.733
4511-2023-363	20	.020	0.090	0.140	0.139	0.139	0.106	0.570	0.629	0.504	0.596
4511-2024-363	20	.019	0.327	0.227	0.226	0.226	0.193	0.657	0.716	0.591	0.683
3511-2025-363	20	.019	0.712	0.612	0.611	0.611	0.578	1.042	1.101	0.976	1.068
4511-2026-363	20	.019	0.420	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-2027-363	20	.019	0.330	0.245	0.244	0.244	0.211	0.675	0.734	0.609	0.701
4511-2028-363	20	.019	0.274	0.084	0.083	0.083	0.050	0.514	0.573	0.448	0.540



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		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-2029-363	20	.019	0.420	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-2030-363	20	.040	0.275	0.431	0.430	0.430	0.397	0.861	0.920	0.795	0.887
4511-2031-363	20	.025	0.551	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-2032-363	20	.023	0.276	0.396	0.395	0.395	0.362	0.826	0.885	0.760	0.852
4511-2033-363	20	.025	0.160	0.128	0.127	0.127	0.094	0.558	0.617	0.492	0.584
4511-2034-363	20	.025	0.195	0.163	0.162	0.162	0.129	0.593	0.652	0.527	0.619
4511-2035-363	20	.025	0.317	0.247	0.246	0.246	0.213	0.677	0.736	0.611	0.703
3511-2036-363	20	.019	0.638	0.543	0.542	0.542	0.509	0.973	1.032	0.907	0.999
4511-2037-363	20	.019	0.378	0.213	0.212	0.212	0.179	0.643	0.702	0.577	0.669
4511-2038-363	20	.019	0.502	0.329	0.328	0.328	0.295	0.759	0.818	0.693	0.785
4511-2039-363	20	.030	0.136	0.130	0.129	0.129	0.096	0.560	0.619	0.494	0.586
4511-2040-363	20	.019	0.635	0.542	0.541	0.541	0.508	0.972	1.031	0.906	0.998
4511-2041-363	20	.019	0.154	0.355	0.354	0.354	0.321	0.785	0.844	0.719	0.811
4511-2042-363	20	.019	0.927	0.848	0.847	0.847	0.814	1.278	1.337	1.212	1.304
4511-2043-363	20	.028	0.120	0.283	0.282	0.282	0.249	0.713	0.772	0.647	0.739
4511-2044-363	20	.019	0.299	0.102	0.101	0.101	0.068	0.532	0.591	0.466	0.558
4511-2045-363	20	.019	0.430	0.211	0.210	0.210	0.177	0.641	0.700	0.575	0.667
4511-2047-363	20	.019	0.397	0.197	0.196	0.196	0.163	0.627	0.686	0.561	0.653
4511-2048-363	20	.019	0.377	0.277	0.276	0.276	0.243	0.707	0.766	0.641	0.733
4511-2049-363	20	.019	0.351	0.257	0.256	0.256	0.223	0.687	0.746	0.621	0.713
3511-2050-363	20	.025	0.948	0.707	0.706	0.706	0.673	1.137	1.196	1.071	1.163
3511-2051-363	20	.025	0.893	0.681	0.680	0.680	0.647	1.111	1.170	1.045	1.137
3511-2052-363	20	.032	0.893	0.681	0.680	0.680	0.647	1.111	1.170	1.045	1.137
3511-2053-363	20	.019	0.487	0.387	0.386	0.386	0.353	0.817	0.876	0.751	0.843
3511-2054-363	20	.019	0.422	0.134	0.133	0.133	0.100	0.564	0.623	0.498	0.590
3511-2055-363	20	.019	0.250	0.412	0.411	0.411	0.378	0.842	0.901	0.776	0.868
3511-2057-363	20	.019	0.269	0.169	0.168	0.168	0.135	0.599	0.658	0.533	0.625
3511-2059-363	20	.019	0.444	0.359	0.358	0.358	0.325	0.789	0.848	0.723	0.815
4511-2060-363	20	.025	0.118	0.169	0.168	0.168	0.135	0.599	0.658	0.533	0.625
4511-2061-363	20	.025	0.138	0.189	0.188	0.188	0.155	0.619	0.678	0.553	0.645
4511-2062-363	20	.025	0.157	0.208	0.207	0.207	0.174	0.638	0.697	0.572	0.664
4511-2063-363	20	.025	0.177	0.228	0.227	0.227	0.194	0.658	0.717	0.592	0.684
4511-2064-363	20	.025	0.197	0.248	0.247	0.247	0.214	0.678	0.737	0.612	0.704
4511-2065-363	20	.025	0.217	0.268	0.267	0.267	0.234	0.698	0.757	0.632	0.724
4511-2066-363	20	.025	0.236	0.287	0.286	0.286	0.253	0.717	0.776	0.651	0.743
4511-2067-363	20	.025	0.118	0.202	0.201	0.201	0.168	0.632	0.691	0.566	0.658
4511-2068-363	20	.025	0.138	0.222	0.221	0.221	0.188	0.652	0.711	0.586	0.678



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		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-2069-363	20	.025	0.157	0.241	0.240	0.240	0.207	0.671	0.730	0.605	0.697
4511-2070-363	20	.025	0.177	0.261	0.260	0.260	0.227	0.691	0.750	0.625	0.717
4511-2071-363	20	.025	0.197	0.281	0.280	0.280	0.247	0.711	0.770	0.645	0.737
4511-2072-363	20	.025	0.217	0.301	0.300	0.300	0.267	0.731	0.790	0.665	0.757
4511-2073-363	20	.025	0.236	0.320	0.319	0.319	0.286	0.750	0.809	0.684	0.776
4511-2074-363	20	.030	0.769	0.598	0.597	0.597	0.564	1.028	1.087	0.962	1.054
4511-2075-363	20	.039	0.280	0.243	0.242	0.242	0.209	0.673	0.732	0.607	0.699
4511-2076-363	20	.026	0.384	0.415	0.414	0.414	0.381	0.845	0.904	0.779	0.871
3511-2077-363	20	.019	0.642	0.542	0.541	0.541	0.508	0.972	1.031	0.906	0.998
4511-2078-363	20	.019	0.300	0.200	0.199	0.199	0.166	0.630	0.689	0.564	0.656
4511-2079-363	20	.019	0.435	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-2081-363	20	.025	0.242	0.165	0.164	0.164	0.131	0.595	0.654	0.529	0.621
4511-2082-363	20	.025	0.383	0.095	0.094	0.094	0.061	0.525	0.584	0.459	0.551
3511-2083-363	20	.025	0.566	0.490	0.489	0.489	0.456	0.920	0.979	0.854	0.946
1511-2084-363	20	.025	0.945	0.707	0.706	0.706	0.673	1.137	1.196	1.071	1.163
1511-2085-363	20	.025	0.762	0.600	0.599	0.599	0.566	1.030	1.089	0.964	1.056
4511-2086-363	20	.025	0.320	0.162	0.161	0.161	0.128	0.592	0.651	0.526	0.618
4511-2088-363	20	.019	0.233	0.076	0.075	0.075	0.042	0.506	0.565	0.440	0.532
4511-2089-363	20	.019	0.438	0.150	0.149	0.149	0.116	0.580	0.639	0.514	0.606
4511-2090-363	20	.019	0.213	0.203	0.202	0.202	0.169	0.633	0.692	0.567	0.659
4511-2091-363	20	.025	0.150	0.202	0.201	0.201	0.168	0.632	0.691	0.566	0.658
3511-2092-363	20	.025	0.490	0.402	0.401	0.401	0.368	0.832	0.891	0.766	0.858
4511-2093-363	20	.034	0.138	0.138	0.137	0.137	0.104	0.568	0.627	0.502	0.594
4511-2094-363	20	.019	0.285	0.251	0.250	0.250	0.217	0.681	0.740	0.615	0.707
4511-2095-363	20	.019	0.225	0.125	0.124	0.124	0.091	0.555	0.614	0.489	0.581
4511-2096-363	20	.019	0.512	0.427	0.426	0.426	0.393	0.857	0.916	0.791	0.883
4511-2097-363	20	.019	0.559	0.474	0.473	0.473	0.440	0.904	0.963	0.838	0.930
4511-2098-363	20	.019	0.542	0.442	0.441	0.441	0.408	0.872	0.931	0.806	0.898
4511-2099-363	20	.019	0.415	0.242	0.241	0.241	0.208	0.672	0.731	0.606	0.698
4511-2002E-363	20	.019	0.090	0.152	0.151	0.151	0.118	0.582	0.641	0.516	0.608
4511-2003E-363	20	.019	0.115	0.152	0.151	0.151	0.118	0.582	0.641	0.516	0.608
4511-2004E-363	20	.019	0.261	0.099	0.098	0.098	0.065	0.529	0.588	0.463	0.555
4511-2005E-363	20	.019	0.285	0.287	0.286	0.286	0.253	0.717	0.776	0.651	0.743
4511-2006E-363	20	.019	0.271	0.303	0.302	0.302	0.269	0.733	0.792	0.667	0.759
4511-2007E-363	20	.019	0.545	0.277	0.276	0.276	0.243	0.707	0.766	0.641	0.733
4511-2008E-363	20	.019	0.295	0.457	0.456	0.456	0.423	0.887	0.946	0.821	0.913
4511-2010E-363	20	.019	0.220	0.412	0.411	0.411	0.378	0.842	0.901	0.776	0.868





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		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-2011E-363	20	.019	0.095	0.622	0.621	0.621	0.588	1.052	1.111	0.986	1.078
4511-2012E-363	20	.019	0.333	0.065	0.064	0.064	0.031	0.495	0.554	0.429	0.521
4511-2013E-363	20	.040	0.250	0.451	0.450	0.450	0.417	0.881	0.940	0.815	0.907
4511-1600-364	16	.062	0.548	0.336	0.335	0.335	0.302	0.766	0.825	0.700	0.792
4511-1601-364	16	.062	0.342	0.325	0.324	0.324	0.291	0.755	0.814	0.689	0.781
4511-1602-364	16	.062	0.307	0.047	0.046	0.046	NONE	0.477	0.536	0.411	NONE
4511-1603-364	16	.048	0.547	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-1604-364	16	.062	0.387	0.097	0.096	0.096	0.063	0.527	0.586	0.461	0.553
4511-1605-364	16	.057	0.118	0.346	0.345	0.345	0.312	0.776	0.835	0.710	0.802
4511-1606-364	16	.050	0.170	0.267	0.266	0.266	0.233	0.697	0.756	0.631	0.723
4511-1607-364	16	.062	0.752	0.591	0.590	0.590	0.557	1.021	1.080	0.955	1.047
4511-1608-364	16	.062	0.090	0.140	0.139	0.139	0.106	0.570	0.629	0.504	0.596
4511-1609-364	16	.062	0.548	0.435	0.434	0.434	0.401	0.865	0.924	0.799	0.891
4511-1610-364	16	.025	0.436	0.336	0.335	0.335	0.302	0.766	0.825	0.700	0.792
4511-1611-364	16	.025	0.165	0.128	0.127	0.127	0.094	0.558	0.617	0.492	0.584
4511-1612-364	16	.025	0.200	0.163	0.162	0.162	0.129	0.593	0.652	0.527	0.619
4511-1613-364	16	.025	0.238	0.201	0.200	0.200	0.167	0.631	0.690	0.565	0.657
4511-1618-364	16	.025	0.085	0.207	0.206	0.206	0.173	0.637	0.696	0.571	0.663
4511-1620-364	16	.040	0.548	0.243	0.242	0.242	0.209	0.673	0.732	0.607	0.699
4511-1621-364	16	.040	0.629	0.324	0.323	0.323	0.290	0.754	0.813	0.688	0.780
4511-1640-364	16	.062	0.118	0.169	0.168	0.168	0.135	0.599	0.658	0.533	0.625
4511-1641-364	16	.062	0.138	0.189	0.188	0.188	0.155	0.619	0.678	0.553	0.645
4511-1642-364	16	.062	0.157	0.208	0.207	0.207	0.174	0.638	0.697	0.572	0.664
4511-1643-364	16	.062	0.177	0.228	0.227	0.227	0.194	0.658	0.717	0.592	0.684
4511-1644-364	16	.062	0.197	0.248	0.247	0.247	0.214	0.678	0.737	0.612	0.704
4511-1645-364	16	.062	0.217	0.268	0.267	0.267	0.234	0.698	0.757	0.632	0.724
4511-1646-364	16	.062	0.236	0.287	0.286	0.286	0.253	0.717	0.776	0.651	0.743
4511-1647-364	16	.062	0.118	0.202	0.201	0.201	0.168	0.632	0.691	0.566	0.658
4511-1648-364	16	.062	0.138	0.222	0.221	0.221	0.188	0.652	0.711	0.586	0.678
4511-1649-364	16	.062	0.157	0.241	0.240	0.240	0.207	0.671	0.730	0.605	0.697
4511-1650-364	16	.062	0.177	0.261	0.260	0.260	0.227	0.691	0.750	0.625	0.717
4511-1651-364	16	.062	0.197	0.281	0.280	0.280	0.247	0.711	0.770	0.645	0.737
4511-1652-364	16	.062	0.217	0.301	0.300	0.300	0.267	0.731	0.790	0.665	0.757
4511-1653-364	16	.062	0.236	0.320	0.319	0.319	0.286	0.750	0.809	0.684	0.776
4511-1654-364	16	.048	0.894	0.681	0.680	0.680	0.647	1.111	1.170	1.045	1.137
4511-1655-364	16	.060	0.769	0.598	0.597	0.597	0.564	1.028	1.087	0.962	1.054
4511-1656-364	16	.062	0.301	0.213	0.212	0.212	0.179	0.643	0.702	0.577	0.669



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		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-1657-364	16	.062	0.434	0.250	0.249	0.249	0.216	0.680	0.739	0.614	0.706
4511-1658-364	16	.039	0.120	0.283	0.282	0.282	0.249	0.713	0.772	0.647	0.739
4511-1659-364	16	.062	0.280	0.265	0.264	0.264	0.231	0.695	0.754	0.629	0.721
4511-1660-364	16	.062	0.213	0.203	0.202	0.202	0.169	0.633	0.692	0.567	0.659
4511-1661-364	16	.062	0.413	0.209	0.208	0.208	0.175	0.639	0.698	0.573	0.665
4511-1662-364	16	.062	0.239	0.035	0.034	0.034	NONE	0.465	0.524	0.399	NONE
4511-1663-364	16	.062	0.428	0.223	0.222	0.222	0.189	0.653	0.712	0.587	0.679
4511-1665-364	16	.062	0.653	0.441	0.440	0.440	0.407	0.871	0.930	0.805	0.897
4511-1666-364	16	.062	0.420	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-1667-364	16	.062	0.330	0.245	0.244	0.244	0.211	0.675	0.734	0.609	0.701
4511-1668-364	16	.062	0.247	0.064	0.063	0.063	0.030	0.494	0.553	0.428	0.520
4511-1669-364	16	.062	0.502	0.329	0.328	0.328	0.295	0.759	0.818	0.693	0.785
4511-1670-364	16	.062	0.635	0.542	0.541	0.541	0.508	0.972	1.031	0.906	0.998
4511-1671-364	16	.062	0.267	0.057	0.056	0.056	NONE	0.487	0.546	0.421	NONE
4511-1672-364	16	.062	0.573	0.489	0.488	0.488	0.455	0.919	0.978	0.853	0.945
4511-1673-364	16	.062	0.250	0.412	0.411	0.411	0.378	0.842	0.901	0.776	0.868
4511-1674-364	16	.062	0.378	0.216	0.215	0.215	0.182	0.646	0.705	0.580	0.672
4511-1675-364	16	.062	0.315	0.142	0.141	0.141	0.108	0.572	0.631	0.506	0.598
4511-1676-364	16	.062	0.380	0.543	0.542	0.542	0.509	0.973	1.032	0.907	0.999
4511-1677-364	16	.062	0.450	0.277	0.276	0.276	0.243	0.707	0.766	0.641	0.733
4511-1678-364	16	.062	0.322	0.112	0.111	0.111	0.078	0.542	0.601	0.476	0.568
4511-1680-364	16	.062	0.522	0.360	0.359	0.359	0.326	0.790	0.849	0.724	0.816
4511-1681-364	16	.062	0.395	0.185	0.184	0.184	0.151	0.615	0.674	0.549	0.641
4511-1682-364	16	.062	0.301	0.218	0.217	0.217	0.184	0.648	0.707	0.582	0.674
4511-1683-364	16	.062	0.445	0.235	0.234	0.234	0.201	0.665	0.724	0.599	0.691
4511-1684-364	16	.062	0.852	0.774	0.773	0.773	0.740	1.204	1.263	1.138	1.230
4511-1685-364	16	.062	0.397	0.297	0.296	0.296	0.263	0.727	0.786	0.661	0.753
4511-1686-364	16	.062	0.945	0.707	0.706	0.706	0.673	1.137	1.196	1.071	1.163
4511-1687-364	16	.062	0.813	0.728	0.727	0.727	0.694	1.158	1.217	1.092	1.184
4511-1688-364	16	.062	0.512	0.427	0.426	0.426	0.393	0.857	0.916	0.791	0.883
4511-1689-364	16	.062	0.190	0.193	0.192	0.192	0.159	0.623	0.682	0.557	0.649
4511-1690-364	16	.054	0.138	0.138	0.137	0.137	0.104	0.568	0.627	0.502	0.594
4511-1691-364	16	.040	0.200	0.160	0.159	0.159	0.126	0.590	0.649	0.524	0.616
4511-1692-364	16	.062	0.250	0.451	0.450	0.450	0.417	0.881	0.940	0.815	0.907
4511-1200-365	12	.081	0.643	0.335	0.334	0.334	0.301	0.765	0.824	0.699	0.791
4511-1201-365	12	.081	0.473	0.165	0.164	0.164	0.131	0.595	0.654	0.529	0.621
4511-1203-365	12	.081	0.523	0.215	0.214	0.214	0.181	0.645	0.704	0.579	0.671



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		O.D.	Length	D38999/20	D38999/20	D38999/24	D38999/24	D38999/20	D38999/20	D38999/24	D38999/24
		±.001	Ref.	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite	Metal shell	Composite
4511-1204-365	12	.081	0.157	0.198	0.197	0.197	0.164	0.628	0.687	0.562	0.654
4511-1205-365	12	.081	0.213	0.322	0.321	0.321	0.288	0.752	0.811	0.686	0.778
4511-1206-365	12	.081	0.244	0.283	0.282	0.282	0.249	0.713	0.772	0.647	0.739
4511-1207-365	12	.081	0.880	0.567	0.566	0.566	0.533	0.997	1.056	0.931	1.023
4511-1208-365	12	.080	0.706	0.444	0.443	0.443	0.410	0.874	0.933	0.808	0.900
4511-1210-365	12	.081	0.145	0.128	0.127	0.127	0.094	0.558	0.617	0.492	0.584
4511-1211-365	12	.081	0.180	0.163	0.162	0.162	0.129	0.593	0.652	0.527	0.619
4511-1230-365	12	.081	0.300	0.508	0.507	0.507	0.474	0.938	0.997	0.872	0.964
4511-1231-365	12	.081	0.590	0.580	0.579	0.579	0.546	1.010	1.069	0.944	1.036
4511-1240-365	12	.081	0.118	0.169	0.168	0.168	0.135	0.599	0.658	0.533	0.625
4511-1241-365	12	.081	0.138	0.189	0.188	0.188	0.155	0.619	0.678	0.553	0.645
4511-1242-365	12	.081	0.157	0.208	0.207	0.207	0.174	0.638	0.697	0.572	0.664
4511-1243-365	12	.081	0.177	0.228	0.227	0.227	0.194	0.658	0.717	0.592	0.684
4511-1244-365	12	.081	0.197	0.248	0.247	0.247	0.214	0.678	0.737	0.612	0.704
4511-1245-365	12	.081	0.217	0.268	0.267	0.267	0.234	0.698	0.757	0.632	0.724
4511-1246-365	12	.081	0.236	0.287	0.286	0.286	0.253	0.717	0.776	0.651	0.743
4511-1247-365	12	.081	0.118	0.202	0.201	0.201	0.168	0.632	0.691	0.566	0.658
4511-1248-365	12	.081	0.138	0.222	0.221	0.221	0.188	0.652	0.711	0.586	0.678
4511-1249-365	12	.081	0.157	0.241	0.240	0.240	0.207	0.671	0.730	0.605	0.697
4511-1250-365	12	.081	0.177	0.261	0.260	0.260	0.227	0.691	0.750	0.625	0.717
4511-1251-365	12	.081	0.197	0.281	0.280	0.280	0.247	0.711	0.770	0.645	0.737
4511-1252-365	12	.081	0.217	0.301	0.300	0.300	0.267	0.731	0.790	0.665	0.757
4511-1253-365	12	.081	0.236	0.320	0.319	0.319	0.286	0.750	0.809	0.684	0.776
4511-1254-365	12	.094	0.242	0.283	0.282	0.282	0.249	0.713	0.772	0.647	0.739
4511-1255-365	12	.081	0.280	0.515	0.514	0.514	0.481	0.945	1.004	0.879	0.971
4511-1256-365	12	.081	0.265	0.376	0.375	0.375	0.342	0.806	0.865	0.740	0.832
4511-1257-365	12	.081	0.250	0.451	0.450	0.450	0.417	0.881	0.940	0.815	0.907