



Part No.	De mm	D1 mm	t mm	t' mm	lo mm	ho mm	ho/t	s=0.25h0 F/N	s=0.50h0 F/N	s=0.75h0 F/N	s=1.00h0 F/N	weight/1000pcs kgs
100001	6.00	3.20	0.30		0.45	0.15	0.50	45	84	119	153	0.044
100002	8.00	3.20	0.20		0.40	0.20	1.00	12	20	26	30	0.064
100003	8.00	3.20	0.30		0.55	0.25	0.83	46	79	104	126	0.099
100004	8.00	3.20	0.40		0.60	0.20	0.50	69	130	186	238	0.133
100005	8.00	3.20	0.50		0.70	0.20	0.40	128	246	357	465	0.166
100006 C	8.00	4.20	0.20		0.45	0.25	1.25	21	33	39	42	0.057
100007 B	8.00	4.20	0.30		0.55	0.25	0.83	52	89	118	142	0.086
100008 A	8.00	4.20	0.40		0.60	0.20	0.50	78	147	210	269	0.114
100009	10.00	3.20	0.30		0.65	0.35	1.17	51	82	98	108	0.166
100010	10.00	3.20	0.40		0.70	0.30	0.75	75	133	179	220	0.221
100011	10.00	3.20	0.50		0.75	0.25	0.50	104	195	279	357	0.277
100012	10.00	4.20	0.40		0.70	0.30	0.75	79	140	189	232	0.203
100013	10.00	4.20	0.50		0.75	0.25	0.50	110	206	294	377	0.254
100014	10.00	4.20	0.60		0.85	0.25	0.42	182	347	502	652	0.304
100015 C	10.00	5.20	0.25		0.55	0.30	1.20	30	48	58	63	0.112
100016 B	10.00	5.20	0.40		0.70	0.30	0.75	88	155	209	257	0.180
100017 A	10.00	5.20	0.50		0.75	0.25	0.50	122	228	325	418	0.225
100018	12.00	4.20	0.40		0.80	0.40	1.00	85	141	178	206	0.311
100019	12.00	4.20	0.50		0.85	0.35	0.70	116	208	284	352	0.389
100020	12.00	4.20	0.60		1.00	0.40	0.67	224	405	557	694	0.467
100021	12.00	5.20	0.50		0.90	0.40	0.80	150	263	350	424	0.360
100022	12.00	5.20	0.60		0.95	0.35	0.58	196	361	506	641	0.432
100023	12.00	6.20	0.50		0.85	0.35	0.70	134	239	326	404	0.325
100024	12.00	6.20	0.60		0.95	0.35	0.58	214	394	552	699	0.390
100025	12.50	5.20	0.50		0.85	0.35	0.70	111	200	270	337	0.382
100026 C	12.50	6.20	0.35		0.80	0.45	1.29	84	130	151	160	0.254

Part No.		D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100027	B	12.50	6.20	0.50		0.85	0.35	0.70	120	215	293	363	0.363
100028	A	12.50	6.20	0.70		1.00	0.30	0.43	239	457	660	855	0.508
100029	C	14.00	7.20	0.35		0.80	0.45	1.29	68	106	123	131	0.311
100030	B	14.00	7.20	0.50		0.90	0.40	0.80	120	210	279	338	0.444
100031	A	14.00	7.20	0.80		1.10	0.30	0.38	284	547	797	1040	0.711
100032		15.00	5.20	0.40		0.95	0.55	1.38	101	154	176	181	0.488
100033		15.00	5.20	0.50		1.00	0.50	1.00	133	221	278	321	0.610
100034		15.00	5.20	0.60		1.05	0.45	0.75	171	302	407	499	0.732
100035		15.00	5.20	0.70		1.10	0.40	0.57	214	395	555	704	0.854
100036		15.00	6.20	0.50		1.00	0.50	1.00	138	229	289	334	0.575
100037		15.00	6.20	0.60		1.05	0.45	0.75	178	314	424	519	0.690
100038		15.00	6.20	0.70		1.10	0.40	0.57	222	411	578	733	0.805
100039		15.00	8.20	0.70		1.10	0.40	0.57	256	474	666	844	0.681
100040		15.00	8.20	0.80		1.20	0.40	0.50	367	689	982	1261	0.778
100041	C	16.00	8.20	0.40		0.90	0.50	1.25	84	131	154	165	0.465
100042	B	16.00	8.20	0.60		1.05	0.45	0.75	172	304	410	503	0.698
100043		16.00	8.20	0.70		1.15	0.45	0.64	254	461	641	798	0.786
100044		16.00	8.20	0.80		1.20	0.40	0.50	308	579	825	1059	0.888
100045	A	16.00	8.20	0.90		1.25	0.35	0.39	363	697	1013	1319	1.047
100046		18.00	6.20	0.40		1.00	0.60	1.50	85	126	139	137	0.704
100047		18.00	6.20	0.50		1.10	0.60	1.20	130	206	245	267	0.880
100048		18.00	6.20	0.60		1.20	0.60	1.00	191	317	400	462	1.056
100049		18.00	6.20	0.70		1.25	0.55	0.79	236	414	553	672	1.232
100050		18.00	6.20	0.80		1.30	0.50	0.63	286	523	726	912	1.408
100051		18.00	8.20	0.70		1.25	0.55	0.79	255	446	596	725	1.108
100052		18.00	8.20	0.80		1.30	0.50	0.63	309	564	783	984	1.266
100053		18.00	8.20	1.00		1.40	0.40	0.40	425	815	1181	1537	1.582
100054	C	18.00	9.20	0.45		1.05	0.60	1.33	121	186	214	223	0.664
100055	B	18.00	9.20	0.70		1.20	0.50	0.71	233	417	566	699	1.033
100056	A	18.00	9.20	1.00		1.40	0.40	0.40	451	865	1254	1631	1.476
100057		20.00	8.20	0.50		1.15	0.65	1.30	128	199	231	243	1.026
100058		20.00	8.20	0.60		1.30	0.70	1.17	214	342	412	453	1.231
100059		20.00	8.20	0.70		1.35	0.65	0.93	262	442	569	668	1.436
100060		20.00	8.20	0.80		1.40	0.60	0.75	315	557	751	921	1.641
100061		20.00	8.20	0.90		1.45	0.55	0.61	374	685	954	1201	1.846
100062		20.00	8.20	1.00		1.55	0.55	0.55	494	918	1295	1648	2.051
100063		20.00	10.20	0.40		0.90	0.50	1.25	53	84	99	106	0.730

Part		D _e	D _i	t	t'	l ₀	h ₀	h ₀ /t	s=0.25h ₀	s=0.50h ₀	s=0.75h ₀	s=1.00h ₀	weight/1000pcs
No.		mm	mm	mm	mm	mm	mm	F/N	F/N	F/N	F/N		kgs
100064	C	20.00	10.20	0.50		1.15	0.65	1.30	141	219	254	268	0.912
100065	B	20.00	10.20	0.80		1.35	0.55	0.69	304	547	748	929	1.460
100066		20.00	10.20	0.90		1.45	0.55	0.61	412	754	1050	1323	1.642
100067		20.00	10.20	1.00		1.55	0.55	0.55	544	1010	1425	1815	1.824
100068	A	20.00	10.20	1.10		1.55	0.45	0.41	548	1050	1521	1976	2.007
100069	C	22.50	11.20	0.60		1.40	0.80	1.33	240	370	425	444	1.409
100070	B	22.50	11.20	0.80		1.45	0.65	0.81	306	533	707	855	1.878
100071	A	22.50	11.20	1.25		1.75	0.50	0.40	693	1330	1929	2509	2.935
100072		23.00	8.20	0.70		1.50	0.80	1.14	279	448	544	602	1.993
100073		23.00	8.20	0.80		1.55	0.75	0.94	332	560	719	842	2.277
100074		23.00	8.20	0.90		1.60	0.70	0.78	391	687	919	1119	2.561
100075		23.00	8.20	1.00		1.70	0.70	0.70	507	909	1249	1536	2.753
100076		23.00	10.20	0.90		1.65	0.75	0.83	463	802	1058	1273	2.357
100077		23.00	10.20	1.00		1.70	0.70	0.70	538	964	1315	1629	2.619
100078		23.00	10.20	1.25		1.90	0.65	0.92	863	1630	2331	3000	3.172
100079		23.00	12.20	1.00		1.60	0.60	0.60	475	872	1217	1536	2.343
100080		23.00	12.20	1.25		1.85	0.60	0.48	863	1630	2331	3000	2.929
100081		23.00	12.20	1.50		2.00	0.50	0.33	1159	2250	3297	4320	3.514
100082		25.00	10.20	1.00		1.75	0.75	0.75	492	870	1168	1436	3.105
100083	C	25.00	12.20	0.70		1.60	0.90	1.29	331	515	600	635	2.055
100084	B	25.00	12.20	0.90		1.60	0.70	0.78	367	644	862	1050	2.642
100085		25.00	12.20	1.00		1.80	0.80	0.80	585	1021	1359	1647	2.832
100086		25.00	12.20	1.25		1.95	0.70	0.56	848	1573	2232	2814	3.526
100087	A	25.00	12.20	1.50		2.05	0.55	0.37	1040	2007	2926	3821	4.403
100088		28.00	10.20	0.80		1.75	0.95	1.19	348	553	662	723	3.354
100089		28.00	10.20	1.00		1.90	0.90	0.90	512	872	1130	1337	4.191
100090		28.00	10.20	1.25		2.05	0.80	0.64	737	1339	1853	2322	5.238
100091		28.00	10.20	1.50		2.20	0.70	0.47	1003	1899	2723	3511	6.286
100092		28.00	12.20	1.00		1.95	0.95	0.95	590	992	1268	1482	3.914
100093		28.00	12.20	1.25		2.10	0.85	0.68	844	1519	2083	2590	4.893
100094		28.00	12.20	1.50		2.25	0.75	0.50	1149	2159	3077	3949	5.872
100095	C	28.00	14.20	0.80		1.80	1.00	1.25	435	681	801	859	2.872
100096	B	28.00	14.20	1.00		1.80	0.80	0.80	476	832	1107	1342	3.590
100097		28.00	14.20	1.25		2.10	0.85	0.68	907	1634	2240	2785	4.486
100098	A	28.00	14.20	1.50		2.15	0.65	0.43	1033	1970	2841	3680	5.386
100099		31.50	12.20	1.00		2.10	1.10	1.10	587	951	1170	1309	5.035
100100		31.50	12.20	1.25		2.20	0.95	0.76	761	1343	1800	2207	6.268

Part		D _e	D _i	t	t'	l ₀	h ₀	h ₀ /t	s=0.25h ₀	s=0.50h ₀	s=0.75h ₀	s=1.00h ₀	weight/1000pcs
No.		mm	mm	mm	mm	mm	mm	F/N	F/N	F/N	F/N	F/N	kgs
100101		31.50	12.20	1.50		2.35	0.85	0.57	1033	1912	2697	3413	7.501
100102	C	31.50	16.30	0.80		1.85	1.05	1.31	384	594	687	722	3.583
100103	B	31.50	16.30	1.25		2.15	0.90	0.72	791	1409	1913	2359	5.599
100104		31.50	16.30	1.50		2.40	0.90	0.60	1260	2314	3230	4077	6.717
100105	A	31.50	16.30	1.75		2.45	0.70	0.40	1391	2669	3871	5036	7.839
100106		31.50	16.30	2.00		2.75	0.75	0.38	2199	4239	6173	8054	8.956
100107		34.00	12.30	1.00		2.25	1.25	1.25	637	998	1174	1258	6.194
100108		34.00	12.30	1.25		2.35	1.10	0.88	815	1395	1818	2162	7.743
100109		34.00	12.30	1.50		2.50	1.00	0.67	1095	1979	2721	3397	9.280
100110		34.00	14.30	1.25		2.40	1.15	0.92	913	1546	1993	2347	7.330
100111		34.00	14.30	1.50		2.55	1.05	0.70	1224	2192	2990	3704	8.799
100112		34.00	16.30	1.50		2.55	1.05	0.70	1291	2313	3155	3908	8.233
100113		34.00	16.30	2.00		2.85	0.85	0.43	2097	4003	5783	7498	10.978
100114	C	35.50	18.30	0.90		2.05	1.15	1.28	458	712	832	884	5.134
100115	B	35.50	18.30	1.25		2.25	1.00	0.80	731	1277	1699	2059	7.131
100116	A	35.50	18.30	2.00		2.80	0.80	0.40	1864	3576	5187	6747	11.410
100117		40.00	14.30	1.25		2.65	1.40	1.12	904	1459	1780	1984	10.755
100118		40.00	14.30	1.50		2.75	1.25	0.83	1113	1927	2545	3061	12.905
100119		40.00	14.30	1.75		2.85	1.10	0.63	1347	2456	3407	4278	15.056
100120		40.00	14.30	2.00		3.05	1.05	0.53	1800	3363	4769	6096	17.207
100121		40.00	16.30	1.50		2.80	1.30	0.87	1224	2102	2749	3281	12.339
100122		40.00	16.30	1.75		3.10	1.35	0.77	1881	3309	4435	5410	14.396
100123		40.00	16.30	2.00		3.10	1.10	0.55	1972	3663	5169	6580	16.499
100124		40.00	18.30	2.00		3.15	1.15	0.58	2182	4030	5656	7171	15.599
100125	C	40.00	20.40	1.00		2.30	1.30	1.30	565	876	1017	1072	7.299
100126	B	40.00	20.40	1.50		2.65	1.15	0.77	1109	1953	2621	3201	10.948
100127		40.00	20.40	2.00		3.10	1.10	0.55	2175	4041	5701	7258	14.590
100128	A	40.00	20.40	2.25		3.15	0.90	0.40	2336	4481	6500	8456	16.422
100129		40.00	20.40	2.50		3.45	0.95	0.38	3351	6453	9390	12243	18.246
100130	C	45.00	22.40	1.25		2.85	1.60	1.28	1041	1620	1891	2007	11.739
100131	B	45.00	22.40	1.75		3.05	1.30	0.74	1524	2701	3646	4475	16.434
100132	A	45.00	22.40	2.50		3.50	1.00	0.40	2773	5320	7716	10037	23.478
100133		48.00	16.30	1.50		3.00	1.50	1.00	1048	1740	2195	2531	18.850
100134		50.00	18.40	1.25		2.85	1.60	1.28	757	1178	1375	1459	16.657
100135		50.00	18.40	1.50		3.30	1.80	1.20	1379	2184	2606	2837	19.988
100136		50.00	18.40	2.00		3.65	1.65	0.83	2229	3868	5114	6163	26.651
100137		50.00	18.40	2.50		4.15	1.65	0.66	3870	7002	9643	12038	33.314

Part No.	D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100138	50.00	18.40	3.00		4.40	1.40	0.47	4602	8772	12652	16389	39.977
100139	50.00	20.40	2.00		3.50	1.50	0.75	1966	3478	4687	5745	25.695
100140	50.00	20.40	2.50		3.85	1.35	0.54	3008	5601	7919	10098	32.118
100141	50.00	22.40	2.00		3.60	1.60	0.80	2247	3924	5222	6329	24.639
100142	50.00	22.40	2.50		3.90	1.40	0.56	3261	6044	8510	10817	30.799
100143 C	50.00	25.40	1.25		2.85	1.60	1.28	854	1328	1550	1646	14.294
100144	50.00	25.40	1.50		3.10	1.60	1.07	1242	2028	2512	2844	17.153
100145 B	50.00	25.40	2.00		3.40	1.40	0.70	1949	3491	4762	5898	22.871
100146	50.00	25.40	2.25		3.75	1.50	0.67	2905	5249	7217	8997	25.730
100147	50.00	25.40	2.50		3.90	1.40	0.56	3473	6437	9063	11519	28.589
100148 A	50.00	25.40	3.00		4.10	1.10	0.37	4255	8214	11976	15640	34.306
100149 C	56.00	28.50	1.50		3.45	1.95	1.30	1458	2259	2622	2766	21.489
100150 B	56.00	28.50	2.00		3.60	1.60	0.80	1910	3335	4438	5379	28.653
100151	56.00	28.50	2.50		4.10	1.60	0.64	3333	6060	8384	10507	35.816
100152 A	56.00	28.50	3.00		4.30	1.30	0.43	4142	7895	11388	14752	42.979
100153	60.00	20.50	2.00		4.10	2.10	1.05	2318	3802	4730	5380	39.208
100154	60.00	20.50	2.50		4.30	1.80	0.72	3018	5379	7302	9006	49.009
100155	60.00	20.50	3.00		4.70	1.70	0.57	4449	8234	11577	14698	58.811
100156	60.00	25.50	2.50		4.40	1.90	0.76	3447	6081	8175	9997	45.465
100157	60.00	25.50	3.00		4.65	1.65	0.55	4495	8352	11784	15002	54.557
100158	60.00	30.50	2.50		4.30	1.80	0.72	3447	6145	8342	10289	41.149
100159	60.00	30.50	2.75		4.40	1.65	0.60	3880	7124	9945	12554	45.264
100160	60.00	30.50	3.00		4.70	1.70	0.57	5083	9407	13226	16792	57.608
100161	60.00	30.50	3.50		5.00	1.50	0.43	6591	12574	18153	23528	57.608
100162 C	63.00	31.00	1.80		4.15	2.35	1.31	2364	3658	4238	4463	33.381
100163 B	63.00	31.00	2.50		4.25	1.75	0.70	2942	5270	7189	8904	46.362
100164	63.00	31.00	3.00		4.80	1.80	0.60	4891	8981	12536	15825	56.635
100165 A	63.00	31.00	3.50		4.90	1.40	0.40	5399	10359	15025	19545	64.907
100166	70.00	24.50	3.00		5.30	2.30	0.77	5080	8948	12007	14663	79.526
100167	70.00	24.50	3.50		6.00	2.50	0.71	8446	15076	20495	25309	92.781
100168	70.00	25.50	2.00		4.50	2.50	1.25	2408	3771	4437	4755	52.401
100169	70.00	30.50	2.50		4.90	2.40	0.96	3755	6297	8031	9360	61.186
100170	70.00	30.50	3.00		5.10	2.10	0.70	4676	8376	11426	14152	73.423
100171	70.00	35.50	3.00		5.10	2.10	0.70	5028	9007	12287	15218	67.319
100172	70.00	35.50	3.50		5.30	1.80	0.51	6077	11384	16177	20714	78.539
100173	70.00	35.50	4.00		5.80	1.80	0.45	8757	16634	23923	30919	89.759

Part No.	D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100176	70.00	40.50	4.00		5.60	1.60	0.40	8391	16099	23351	30376	80.388
100177	70.00	40.50	5.00		6.20	1.20	0.24	11544	22728	33672	44495	100.485
100179 C	71.00	36.00	2.00		4.60	2.60	1.30	2861	4432	5144	5426	46.177
100180 B	71.00	36.00	2.50		4.50	2.00	0.80	2894	5054	6725	8152	57.722
100181 A	71.00	36.00	4.00		5.60	1.60	0.40	7379	14157	20535	26712	92.355
100183	80.00	31.00	2.50		5.30	2.80	1.12	3678	5933	7239	8070	84.305
100184	80.00	31.00	3.00		5.50	2.50	0.83	4531	7847	10352	12451	100.598
100185	80.00	31.00	4.00		6.10	2.10	0.53	7319	13677	19394	24791	134.130
100187	80.00	35.50	4.00		6.20	2.20	0.55	8118	15083	21280	27093	126.750
100189	80.00	36.00	3.00		5.70	2.70	0.90	5401	9196	11919	14106	94.401
100190 C	80.00	41.00	2.25		5.20	2.95	1.31	3698	5715	6613	6950	65.460
100191 B	80.00	41.00	3.00		5.30	2.30	0.77	4450	7838	10518	12844	87.281
100192	80.00	41.00	4.00		6.20	2.20	0.55	8726	16213	22874	29122	116.374
100194 A	80.00	41.00	5.00		6.70	1.70	0.34	11821	22928	33559	43952	145.468
100196 C	90.00	46.00	2.50		5.70	3.20	1.28	4232	6585	7684	8157	92.231
100197 B	90.00	46.00	3.50		6.00	2.50	0.71	5836	10416	14161	17487	129.124
100198 A	90.00	46.00	5.00		7.00	2.00	0.40	11267	21617	31354	40786	184.463
100200	100.00	41.00	4.00		7.20	3.20	0.80	8715	15219	20251	24547	205.153
100202	100.00	41.00	5.00		7.75	2.75	0.55	12345	22937	32361	41201	256.441
100204 C	100.00	51.00	2.70		6.20	3.50	1.30	4779	7410	8609	9091	123.164
100205 B	100.00	51.00	3.50		6.30	2.80	0.80	5624	9823	13070	15843	159.657
100206	100.00	51.00	4.00		7.00	3.00	0.75	8673	15341	20674	25338	182.465
100208	100.00	51.00	5.00		7.80	2.80	0.56	13924	25810	36339	46189	228.081
100210 A	100.00	51.00	6.00		8.20	2.20	0.37	17061	32937	48022	62711	273.698

Part No.	D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100212	100.00	51.00	7.00	6.55	9.20	2.20	0.31	27374	52454	75840	115982	298.787
100213 C	112.00	57.00	3.00		6.90	3.90	1.30	5834	9038	10489	11064	171.917
100214 B	112.00	57.00	4.00		7.20	3.20	0.80	7639	13341	17752	21518	229.222
100216 A	112.00	57.00	6.00		8.50	2.50	0.42	15800	30215	43707	56737	343.833
100218	125.00	41.00	4.00		8.20	4.20	1.05	8625	14146	17598	20016	338.100
100219	125.00	51.00	4.00		8.50	4.50	1.13	10096	16265	19817	22060	321.182
100221	125.00	51.00	5.00		8.90	3.90	0.78	13063	22931	30669	37342	401.478
100223	125.00	51.00	6.00		9.40	3.40	0.57	17027	31514	44307	56254	481.773
100224	125.00	51.00	6.00	5.65	9.40	3.40	0.57	17944	32369	44307	58923	453.700
100225	125.00	61.00	5.00		9.00	4.00	0.80	14615	25526	33965	41170	366.953
100227	125.00	61.00	6.00		9.60	3.60	0.60	19789	36336	50722	64028	440.343
100229	125.00	61.00	8.00	7.50	10.90	2.90	0.36	34434	65305	93577	138144	550.429
100230 C	125.00	64.00	3.50		8.00	4.50	1.29	8514	13231	15416	16335	248.775
100231	125.00	64.00	5.00		8.50	3.50	0.70	12238	21924	29908	37041	355.393
100233 B	125.00	64.00	6.00		9.60	3.60	0.60	20348	37362	52155	65836	426.471
100235	125.00	64.00	7.00	6.55	10.00	3.00	0.43	25528	47615	67216	95795	465.564
100236 A	125.00	64.00	8.00	7.50	10.60	2.60	0.33	31118	59520	85926	111056	529.900
100237	125.00	71.00	6.00		9.30	3.30	0.55	19538	36302	51217	65207	391.515
100239	125.00	71.00	8.00	7.40	10.40	2.40	0.30	30867	59149	85494	112411	486.131
100240	125.00	71.00	10.00	9.20	11.80	1.80	0.18	42963	84219	124124	223282	606.848
100241 C	140.00	72.00	3.80		8.70	4.90	1.29	9514	14773	17195	18199	337.734
100242 B	140.00	72.00	5.00		9.00	4.00	0.80	12014	20982	27920	33843	444.388
100244 A	140.00	72.00	8.00	7.50	11.20	3.20	0.40	31903	59967	85251	123137	666.581
100245	150.00	61.00	5.00		10.30	5.30	1.06	15292	25021	31041	35207	578.881
100247	150.00	61.00	6.00		10.80	4.80	0.80	19560	34161	45456	55098	694.658
100248	150.00	71.00	6.00		10.80	4.80	0.80	20721	36189	48155	58370	645.829

Part No.	D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100251	150.00	71.00	8.00	7.50	12.00	4.00	0.50	35296	64684	89851	115298	807.237
100252	150.00	61.00	7.00	6.55	11.80	4.80	0.69	30593	53294	70442	89248	758.335
100253	150.00	81.00	8.00	7.50	11.70	3.70	0.34	23766	45331	65426	84211	719.402
100254	150.00	81.00	10.00	9.30	13.00	3.00	0.30	50088	96120	139128	182931	923.710
100255 C	160.00	82.00	4.30		9.90	5.60	1.30	12162	18832	21843	23022	500.409
100257	160.00	82.00	6.00		10.50	4.50	0.75	17203	30431	41008	50260	698.246
100259 A	160.00	82.00	10.00	9.40	13.50	3.50	0.35	50547	96216	138331	204958	1094.000
100260	160.00	82.00	11.00	10.20	14.50	3.50	0.32	66678	127338	183518	284160	1187.000
100261 C	180.00	92.00	4.80		11.00	6.20	1.29	14646	22731	26442	27966	708.337
100263	180.00	92.00	6.00		11.10	5.10	0.85	16558	28552	37502	44930	885.421
100265 A	180.00	92.00	10.00	9.40	14.00	4.00	0.40	46850	88141	125417	180562	1387.000
100266	180.00	92.00	13.00	12.10	16.50	3.50	0.27	84574	163392	237883	381593	1786.000
100269	200.00	82.00	8.00	7.60	14.20	6.20	0.78	35029	60013	78034	95329	1539.000
100270	200.00	82.00	8.50	8.10	14.50	6.00	0.71	38500	67200	89300	112100	1660.000
100271	200.00	82.00	10.00	9.60	15.50	5.50	0.55	51105	93357	129445	173523	1928.000
100272	200.00	82.00	12.00	11.50	16.60	4.60	0.38	66924	127191	182737	266449	2308.000
100273	200.00	82.00	13.00	12.10	16.50	3.50	0.27	62100	120000	174800	280300	2480.000
100274	200.00	92.00	10.00	9.50	15.60	5.60	0.56	55136	100014	137688	183777	1828.000
100275	200.00	92.00	12.00	11.40	16.80	4.80	0.40	73913	139548	199269	287825	2187.000
100276	200.00	92.00	14.00	13.10	18.10	4.10	0.29	95633	184092	267227	418519	2537.000
100277 C	200.00	102.00	5.50		12.50	7.00	1.27	19817	30882	36111	38423	1004.000
100279 B	200.00	102.00	8.00	7.50	13.60	5.60	0.70	33367	57955	76378	96202	1368.000
100280	200.00	102.00	8.30	7.80	14.30	6.00	0.72	40500	70000	91800	114600	1420.000
100281	200.00	102.00	9.00	8.60	14.60	5.60	0.62	44100	78800	107100	138600	1570.000
100282	200.00	102.00	10.00	9.40	15.60	5.60	0.56	58576	106099	145357	194014	1716.000
100283	200.00	102.00	11.00	10.30	15.00	4.00	0.36	49500	93900	134500	198700	1880.000
100284 A	200.00	102.00	12.00	11.25	16.20	4.20	0.35	66983	127401	183020	272297	2053.000
100285	200.00	102.00	14.00	13.10	18.20	4.20	0.30	103781	199476	289181	450249	2381.000

Part No.	D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100287	200.00	112.00	12.00	11.10	16.20	4.20	0.35	72257	136873	195830	291355	1904.000
100288	200.00	112.00	14.00	12.90	17.50	3.50	0.25	91033	176156	256758	418407	2209.000
100289	200.00	112.00	15.00	14.00	18.00	3.00	0.20	93500	183100	269700	465200	2370.000
100290	200.00	112.00	16.00	14.80	18.80	2.80	0.27	105628	206697	305100	401294	2505.000
100291 C	225.00	112.00	6.50	6.20	13.60	7.10	1.09	23582	37417	44580	48614	1455.000
100292 B	225.00	112.00	8.00	7.50	14.50	6.50	0.81	32870	55412	70749	85127	1761.000
100293	225.00	112.00	9.00	8.45	15.50	6.50	0.72	43600	75300	98800	123300	1980.000
100294	225.00	112.00	10.00	9.40	16.20	6.20	0.62	52800	93900	126700	164800	2200.000
100295	225.00	112.00	10.80	10.00	16.50	5.70	0.53	58100	105200	144400	197000	2350.000
100296 A	225.00	112.00	12.00	11.25	17.00	5.00	0.42	64497	120738	171016	244783	2641.000
100297	225.00	112.00	16.00	14.90	20.50	4.50	0.28	128407	247489	359590	569897	3498.000
100298	250.00	102.00	10.00	9.60	18.00	8.00	0.80	56867	97282	126387	152967	3019.000
100299	250.00	102.00	12.00	11.50	19.00	7.00	0.58	73563	133130	182962	242024	3613.000
100300 C	250.00	127.00	7.00	6.70	14.80	7.80	1.11	26895	42527	50466	54733	1915.000
100301	250.00	127.00	7.50	7.00	16.50	9.00	1.20	41900	64400	73500	75100	2000.000
100302	250.00	127.00	8.00	7.50	16.00	8.00	1.00	38439	61836	74819	83455	2144.000
100303	250.00	127.00	9.00	8.45	16.60	7.60	0.84	45900	76800	97300	115600	2420.000
100304	250.00	127.00	9.20	8.60	17.40	8.20	0.89	55200	91000	113400	132000	2460.000
100305 B	250.00	127.00	10.00	9.40	17.00	7.00	0.70	51871	90206	119053	149964	2687.000
100306	250.00	127.00	10.50	9.90	18.00	7.50	0.71	64800	112500	148100	185500	2830.000
100307	250.00	127.00	11.00	10.40	18.80	7.80	0.71	77000	133900	176900	222000	2970.000
100308	250.00	127.00	12.00	11.25	19.30	7.30	0.61	87633	156021	210806	275879	3216.000
100309	250.00	127.00	13.00	12.20	19.60	6.60	0.51	93900	171800	238300	325800	3490.000
100310	250.00	127.00	13.50	12.60	19.60	6.10	0.45	94200	174400	244700	345300	3600.000
100311 A	250.00	127.00	14.00	13.10	19.60	5.60	0.40	93239	175145	248828	360229	3745.000
100312	250.00	127.00	14.50	13.60	20.00	5.50	0.38	100400	189700	270800	395600	3890.000
100313	250.00	127.00	15.00	14.10	21.00	6.00	0.40	122500	230500	327900	472100	4030.000
100314	250.00	127.00	16.00	15.00	21.80	5.80	0.36	140491	267295	383017	570770	4260.000
100315	250.00	127.00	16.80	15.65	22.00	5.20	0.31	142800	273500	395400	611600	4470.000
100316	250.00	127.00	17.50	16.35	22.00	4.50	0.26	136000	263600	384900	619500	4670.000
100317	250.00	127.00	18.50	17.30	23.00	4.50	0.24	159700	310400	454300	739800	4950.000
100318	270.00	127.00	10.65	10.00	18.00	7.35	0.69	53800	93700	123900	156700	3500.000
100319	270.00	142.00	22.00		26.90	4.90	0.22	248700	490700	728300	963500	7150.000
100320	280.00	127.00	12.00	11.40	21.40	9.40	0.78	95400	163100	211600	258300	4380.000
100321	280.00	127.00	19.00	18.00	25.00	6.00	0.32	178200	342600	496800	741600	6910.000
100322	280.00	142.00	12.00	11.30	21.00	9.00	0.75	95100	163400	212900	262900	4060.000

Part No.	D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100323	280.00	142.00	15.00	14.10	21.40	6.40	0.43	105700	197600	279500	396800	5060.000
100324	280.00	142.00	16.60	15.60	23.25	6.65	0.40	146600	275800	392300	564800	5600.000
100325	280.00	142.00	17.45	16.40	23.90	6.45	0.37	162300	307600	440400	645100	5890.000
100326	280.00	142.00	18.00	16.90	24.00	6.00	0.33	162600	310600	447900	672000	6070.000
100327	280.00	142.00	18.90	17.80	24.60	5.70	0.30	175800	338300	491000	748700	6390.000
100328	280.00	142.00	20.30	19.10	25.40	5.10	0.25	190600	370300	542100	862700	6860.000
100329	280.00	142.00	22.00	20.65	26.35	4.35	0.20	202800	397600	586300	996900	7410.000
100330	280.00	152.00	12.80	11.90	19.80	7.00	0.55	82100	148000	202500	273200	4060.000
100331	280.00	152.00	15.00	14.00	21.40	6.40	0.43	111300	207500	292700	418700	4770.000
100332	280.00	152.00	18.50	17.40	23.60	5.10	0.28	152700	295400	430600	671500	5930.000
100333	300.00	127.00	12.00	11.30	21.00	9.00	0.75	76300	131000	170700	210800	5150.000
100334	300.00	127.00	13.00	12.30	20.50	7.50	0.58	70900	127800	174900	231100	5600.000
100335	300.00	127.00	14.00	13.30	21.00	7.00	0.50	78300	144200	201400	273700	6060.000
100336	300.00	127.00	15.30		22.80	7.50	0.49	104600	197000	281200	361400	6970.000
100337	300.00	127.00	16.00	15.20	24.30	8.30	0.52	140200	257000	357400	482200	6920.000
100338	300.00	127.00	17.00	16.10	23.80	6.80	0.40	128400	242200	345500	492600	7330.000
100339	300.00	127.00	17.40	16.45	22.65	5.25	0.30	101100	194800	283000	428200	7490.000
100340	300.00	152.00	8.50	8.25	16.80	8.30	0.98	31300	51500	64100	73700	3400.000
100341	300.00	152.00	10.00	9.40	20.00	10.00	1.00	64900	104500	126600	141500	3880.000
100342	300.00	152.00	12.00	11.30	21.00	9.00	0.75	82800	142200	185300	228900	4660.000
100343	300.00	152.00	13.00	12.20	22.00	9.00	0.69	101200	176200	232800	294200	5030.000
100344	300.00	152.00	14.00	13.20	22.00	8.00	0.57	102500	184700	252700	335200	5440.000
100345	300.00	152.00	14.50	13.60	22.00	7.50	0.52	103400	188600	260900	355300	5610.000
100346	300.00	152.00	15.00	14.10	23.00	8.00	0.53	123100	223900	308900	417100	5820.000
100347	300.00	152.00	15.50	14.60	23.50	8.00	0.52	134100	245200	339900	461800	6020.000
100348	300.00	152.00	16.10	15.10	23.70	7.60	0.47	139200	257000	359500	500100	6230.000
100349	300.00	152.00	16.50		23.00	6.50	0.39	117500	225600	327600	426400	6810.000
100350	300.00	152.00	17.00	16.00	24.40	7.40	0.44	155600	290300	410000	578800	6600.000
100351	300.00	152.00	18.00	16.80	25.00	7.00	0.39	170900	321700	457700	669000	6930.000
100352	300.00	152.00	18.50	17.40	25.00	6.50	0.35	167900	319600	459500	679600	7180.000
100353	300.00	152.00	19.50	18.30	26.20	6.70	0.34	202200	385200	554200	826600	7550.000
100354	300.00	152.00	20.00	18.80	25.50	5.50	0.28	173000	334500	487600	761900	7750.000
100355	300.00	152.00	20.50	19.30	26.50	6.00	0.29	204700	394700	573800	881200	7960.000
100356	300.00	182.00	12.00	11.10	18.00	6.00	0.50	54400	99100	136900	189600	3890.000
100357	320.00	172.00	8.10	7.60	16.30	8.20	1.01	26200	42000	50600	56200	3410.000
100358	320.00	172.00	9.00	8.50	19.00	10.00	1.11	47000	73900	87100	93500	3820.000
100359	320.00	172.00	13.00	12.20	20.00	7.00	0.54	64400	117000	161000	217100	5480.000

Part No.	D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100360	320.00	172.00	15.00	14.10	21.00	6.00	0.40	77600	146100	207900	299300	6330.000
100361	340.00	172.00	9.20	8.65	19.40	10.20	1.11	43700	68600	80700	86300	4590.000
100362	340.00	172.00	9.50	8.90	20.80	11.30	1.19	57000	87900	100800	104000	4720.000
100363	340.00	172.00	10.50	9.90	22.50	12.00	1.14	78300	122200	142500	150800	5250.000
100364	340.00	172.00	11.00	10.40	22.40	11.40	1.04	78300	125400	151000	167000	5520.000
100365	340.00	172.00	11.50	10.80	22.90	11.40	0.99	87000	140300	170400	191000	5730.000
100366	340.00	172.00	12.50	11.80	23.00	10.50	0.84	90800	152500	194000	231400	6260.000
100367	340.00	172.00	13.50	12.70	23.50	10.00	0.74	101300	174300	227600	282100	6740.000
100368	340.00	172.00	13.70	12.90	24.30	10.60	0.77	115000	196200	253900	310700	6840.000
100369	340.00	172.00	14.20	13.30	24.40	10.20	0.72	118800	205200	268900	336100	7050.000
100370	340.00	172.00	14.60	13.70	25.10	10.50	0.72	132700	229400	300900	376100	7270.000
100371	340.00	172.00	15.30	14.40	24.70	9.40	0.61	126200	224700	303700	396100	7640.000
100372	340.00	172.00	15.80	14.80	25.50	9.70	0.61	144000	255900	345200	450700	7850.000
100373	340.00	172.00	16.20	15.20	25.60	9.40	0.58	146700	263200	358400	474600	8060.000
100374	340.00	172.00	17.00	16.00	25.30	8.30	0.49	140300	258300	360400	496100	8490.000
100375	340.00	172.00	17.30	16.30	26.10	8.80	0.51	158700	290800	403900	550500	8640.000
100376	340.00	172.00	18.00	16.90	26.00	8.00	0.44	156400	291000	409800	577300	8960.000
100377	340.00	172.00	20.00	18.70	28.00	8.00	0.40	209500	393500	558900	809800	9920.000
100378	340.00	172.00	22.00	20.60	28.00	6.00	0.27	195500	377900	550600	869300	10900.000
100379	360.00	182.00	15.50	14.60	23.50	8.00	0.52	93000	170000	235700	320300	8680.000
100380	360.00	182.00	20.00	18.80	28.30	8.30	0.42	194800	365200	518000	739800	11200.000
100381	360.00	182.00	21.00	19.70	28.00	7.00	0.33	182000	347500	501000	752700	11700.000
100382	360.00	182.00	21.50	20.20	29.50	8.00	0.37	227700	431200	617000	902900	12000.000
100383	360.00	182.00	23.00	21.60	30.20	7.20	0.31	243300	466700	675700	1027000	12800.000
100384	370.00	202.00	25.00	23.20	31.40	6.40	0.26	271200	525000	765700	1252000	13700.000
100385	370.00	202.00	26.00	24.20	32.80	6.80	0.26	324500	628000	915500	1480000	14300.000
100386	380.00	152.00	19.00	18.00	29.00	10.00	0.53	174600	319100	442400	596100	13500.000
100387	380.00	192.00	13.50	12.70	26.20	12.70	0.94	120300	196600	242400	277600	8420.000
100388	380.00	192.00	25.00	23.40	33.00	8.00	0.32	313100	599300	865600	1318000	15500.000
100389	380.00	202.00	12.00	11.50	25.00	13.00	1.08	98100	156300	187300	205700	7350.000
100390	380.00	202.00	15.00	14.10	27.00	12.00	0.80	144400	244600	313900	379900	9000.000
100391	380.00	212.00	18.00	16.70	27.00	9.00	0.50	158000	288300	398700	551200	10200.000
100392	400.00	202.00	10.00	9.60	22.00	12.00	1.20	50100	77900	90400	95200	7050.000
100393	400.00	202.00	12.00	11.30	26.50	14.50	1.21	107500	165400	189200	194700	8300.000
100394	400.00	202.00	14.00	13.20	27.00	13.00	0.93	122400	200800	248900	286700	9700.000
100395	400.00	202.00	16.00	15.10	28.00	12.00	0.75	146600	252100	328800	406200	11100.000
100396	400.00	202.00	19.00	17.90	30.00	11.00	0.58	198900	357700	488200	645800	13200.000

Part No.	D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100397	400.00	202.00	20.30	19.10	31.10	10.80	0.53	230900	420300	580100	783300	14000.000
100398	400.00	202.00	21.20	19.90	31.40	10.20	0.48	240700	443500	619200	857100	14600.000
100399	400.00	202.00	22.50	21.20	32.50	10.00	0.44	274900	512000	722000	1014000	15600.000
100400	400.00	202.00	30.00	28.20	37.20	7.20	0.24	422500	822700	1206000	1945000	20700.000
100401	440.00	212.00	18.50		32.00	13.50	0.73	190400	338500	458400	564300	17000.000
100402	440.00	252.00	25.00	23.20	33.00	8.00	0.32	257500	491700	708500	1094000	18600.000
100403	450.00	202.00	25.50	24.00	34.10	8.60	0.34	241500	461200	665000	991000	23900.000
100404	450.00	252.00	21.00	19.50	33.00	12.00	0.57	251200	449800	610900	814900	16700.000
100405	450.00	252.00	25.00	23.30	33.80	8.80	0.35	269500	511400	733000	1099000	20000.000
100406	470.00	237.00	33.00	31.00	42.00	9.00	0.27	516100	999000	1456000	2282000	31500.000
100407	480.00	252.00	20.30	19.00	33.00	12.70	0.63	207400	367200	493500	641300	19600.000
100408	480.00	252.00	20.70		36.60	15.90	0.77	285500	502600	674300	823100	21300.000
100409	500.00	202.00	37.00	35.00	44.40	7.40	0.20	466200	914900	1350000	2233000	45100.000
100410	500.00	242.00	32.00	30.00	41.00	9.00	0.28	408400	788400	1147000	1794000	35400.000
100411	500.00	252.00	19.00		34.50	15.50	0.82	200100	348100	461300	557200	21900.000