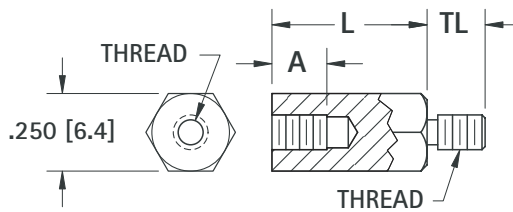


MALE/FEMALE THREADED STANDOFFS



THREAD SIZE	TL EXTERNAL	A INTERNAL
4-40	.187 (4.7)	.250 (6.4)
6-32	.250 (6.4)	.375 (9.5)
8-32	.375 (9.5)	.375 (9.5)

Application Note:
For PC/104 applications use length .600 (15.3) 4-40 Thread

CHOICE OF:		
Stainless: ASTM A581/A582	Brass: ASTM-B16 Plating: Nickel (QQ-N-290)	Aluminum: ASTM B211 Plating: Clear Iridite (Mil-C-5541)

4-40 THREAD			
L LENGTH	STAINLESS STEEL CAT. NO.	BRASS CAT. NO.	ALUMINUM CAT. NO.
.250 (6.4)***	8712	8713	8714
.375 (9.5)	2087	7200	8400
.500 (12.7)	2088	1944	8401
.600 (15.3)*	5799	8799	6799
.625 (15.9)	2089	1945	8402
.750 (19.1)	2090	1946	8403
.875 (22.2)	2091	7201	8404
1.000 (25.4)	2092	1947	8405
1.125 (28.6)	2093	7202	8406
1.250 (31.8)	2094	1948	8407
1.375 (34.9)	2095	1949	8408
1.500 (38.1)	2096	1950	8409
1.625 (41.3)	2097	7203	8410
1.750 (44.5)	2098	7205	8411
2.000 (50.8)	2099	1951	8412

*PC/104 Standard Length
***Internal Thread .130 (3.3)/.150 (3.8) Deep

6-32 THREAD			
L LENGTH	STAINLESS STEEL CAT. NO.	BRASS CAT. NO.	ALUMINUM CAT. NO.
.250 (6.4)***	8715	8716	8717
.375 (9.5)**	2119	7210	8413
.500 (12.7)	2120	1952	8414
.625 (15.9)	2121	1953	8415
.750 (19.1)	2122	1954	8416
.875 (22.2)	2123	7211	8417
1.000 (25.4)	2124	1644	8418
1.125 (28.6)	2125	7212	8419
1.250 (31.8)	2126	1955	8420
1.375 (34.9)	2127	1956	8421
1.500 (38.1)	2128	1645	8422
1.625 (41.3)	2129	7214	8423
1.750 (44.5)	2130	7215	8424
2.000 (50.8)	2131	1646	8425

** Internal Thread .250 (6.4) Deep
*** Internal Thread .130 (3.3)/.150 (3.8) Deep

8-32 THREAD			
L LENGTH	STAINLESS STEEL CAT. NO.	BRASS CAT. NO.	ALUMINUM CAT. NO.
.250 (6.4)***	8731	8732	8733
.375 (9.5)**	2149	7220	8426
.500 (12.7)	2150	1957	8427
.625 (15.9)	2151	1958	8428
.750 (19.1)	2152	1959	8429
.875 (22.2)	2153	7221	8430
1.000 (25.4)	2154	1960	8431
1.125 (28.6)	2155	7222	8432
1.250 (31.8)	2156	1961	8433
1.375 (34.9)	2157	1962	8434
1.500 (38.1)	2158	1963	8435
1.625 (41.3)	2159	7224	8436
1.750 (44.5)	2160	7225	8437
2.000 (50.8)	2161	1964	8438
2.500 (63.5)	2180	1965	8439
3.000 (76.2)	2181	1966	8440

** Internal Thread .250 (6.4) Deep
*** Internal Thread .130 (3.3)/.150 (3.8) Deep

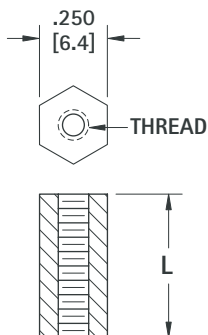
THREADED NYLON STANDOFFS

MATERIAL: Nylon 6/6

FEMALE STANDOFFS
UL RATED 94V-2



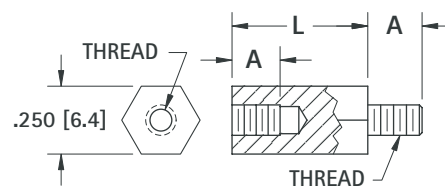
L LENGTH	THREAD SIZE		
	4-40 CAT. NO.	6-32 CAT. NO.	8-32 CAT. NO.
.250 (6.4)	1902A	1903A	1904A
.375 (9.5)	1902B	1903B	1904B
.500 (12.7)	1902C	1903C	1904C
.625 (15.8)	1902F	1903F	1904F
.750 (19.1)	1902D	1903D	1904D
.875 (22.2)	1902G	1903G	1904G
1.000 (25.4)	1902E	1903E	1904E



FLAME RETARDANT
FEMALE STANDOFFS
UL RATED 94V-0

L LENGTH	THREAD SIZE		
	4-40 CAT. NO.	6-32 CAT. NO.	8-32 CAT. NO.
.250 (6.4)	8440A	8441A	8442A
.375 (9.5)	8440B	8441B	8442B
.500 (12.7)	8440C	8441C	8442C
.625 (15.8)	8440D	8441D	8442D
.750 (19.1)	8440E	8441E	8442E
.875 (22.2)	8440F	8441F	8442F
1.000 (25.4)	8440G	8441G	8442G

MALE/FEMALE STANDOFFS
UL RATED 94V-2



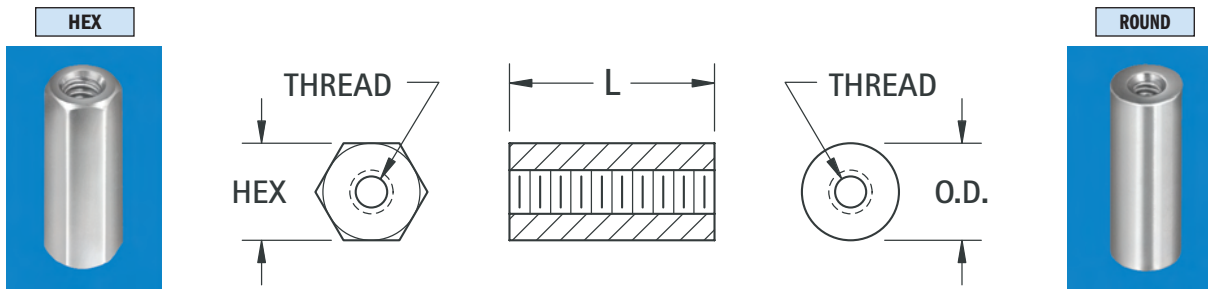
L LENGTH	THREAD SIZE		
	4-40 CAT. NO.	6-32 CAT. NO.	8-32 CAT. NO.
.250 (6.4)***	4800	4814	4828
.375 (9.5)	4801	4815	4829**
.500 (12.7)	4802	4816	4830
.600 (15.3)*	4799	-	-
.625 (15.9)	4803	4817	4831
.750 (19.1)	4804	4818	4832
.875 (22.2)	4805	4819	4833
1.000 (25.4)	4806	4820	4834
1.125 (28.6)	4807	4821	4835
1.250 (31.8)	4808	4822	4836
1.375 (34.9)	4809	4823	4837
1.500 (38.1)	4810	4824	4838
1.625 (41.3)	4811	4825	4839
1.750 (44.5)	4812	4826	4840
2.000 (50.8)	4813	4827	4841

* PC/104 Standard Length
** Internal Thread .250 (6.4) Deep
*** Internal Thread .130 (3.3)/.150 (3.8) Deep

Application Note:
For PC/104 applications use CAT. NO. 4799

THREAD SIZE	A
4-40	.187 (4.7)
6-32	.250 (6.4)
8-32	.375 (9.5)

FEMALE THREADED STANDOFFS



CHOICE OF:			
Stainless: ASTM A581/A582	Brass: per ASTM-B16 Plating: Zinc ASTM B633	Aluminum: ASTM B211 Plating: Clear Iridite Finish (Mil-C-5541)	Phenolic: PBE Grade Natural Color Phenolic

HEX	HEX			LENGTH	ROUND			O.D.
	STAINLESS CAT. NO.	BRASS CAT. NO.	ALUMINUM CAT. NO.		BRASS CAT. NO.	ALUMINUM CAT. NO.	PHENOLIC CAT. NO.	
2-56 THREAD								
.156 (3.9)	—	1798A	1797A	.187 (4.7)	1802A	1801A	—	.156 (3.9)
	—	1798B	1797B	.250 (6.4)	1802B	1801B	—	
	—	1798C	1797C	.312 (7.9)	1802C	1801C	—	
	—	1798D	1797D	.375 (9.5)	1802D	1801D	—	
4-40 THREAD								
.187 (4.7)	—	1450	1891	.250 (6.4)	1547	2025	—	.187 (4.7)
	—	1803	1892	.375 (9.5)	1864	2026	—	
	—	1656	1893	.500 (12.7)	1657	2027	—	
	—	1804	1894	.625 (15.9)	1865	2028	—	
	—	1656A	1895	.750 (19.1)	1657A	2029	—	
	—	1805	1896	.875 (22.2)	1866	2030	—	
	—	1656B	1897	1.000 (25.4)	1657B	2031	—	
.250 (6.4)	1921	1450A	2201	.250 (6.4)	1547A	3478	376	.250 (6.4)
	1921A	1450B	2202	.375 (9.5)	1547B	3479	377	
	1921B	1450C	2203	.500 (12.7)	1547C	3480	378	
	—	1829	1808	.625 (15.9)	1867	1839	—	
	1921C	1450D	2204	.750 (19.1)	1547D	3481	379	
	—	1830	1809	.875 (22.2)	1876	1846	—	
	1921D	1450E	2205	1.000 (25.4)	1547E	3482	380	
	1921E	1831	2206	1.500 (38.1)	1877	3483	381	
	1921F	1832	2207	2.000 (50.8)	1878	3484	382	
6-32 THREAD								
.250 (6.4)	1922	1451A	2208	.250 (6.4)	1548A	3485	383	.250 (6.4)
	1922A	1451B	2209	.375 (9.5)	1548B	3486	384	
	1922B	1451C	2210	.500 (12.7)	1548C	3487	385	
	—	1451D	1813	.625 (15.9)	1548D	1847	—	
	1922C	1451E	2211	.750 (19.1)	1548E	3488	386	
	—	1833	1816	.875 (22.2)	1879	1848	—	
	1922D	1635	2212	1.000 (25.4)	1548F	3489	387	
	—	1636	1818	1.250 (31.8)	1881	1853	—	
	1922E	1637	2213	1.500 (38.1)	1882	3490	388	
	—	1638	1819	1.750 (44.5)	1883	1855	—	
	1922F	1639	2214	2.000 (50.8)	1884	3491	389	
	—	1642	1820	2.250 (57.2)	1885	1856	—	
	—	1643	1825	2.500 (63.5)	1886	1857	—	
	8-32 THREAD							
.250 (6.4)	1923	1474A	2215	.250 (6.4)	1692A	3492	390	.250 (6.4)
	1923A	1474B	2216	.375 (9.5)	1692B	3493	391	
	1923B	1474C	2217	.500 (12.7)	1692C	3494	392	
	—	1834	1827	.625 (15.9)	1887	1858	—	
	1923C	1474D	2218	.750 (19.1)	1692D	3495	393	
	—	1836	1828	.875 (22.2)	1888	1859	—	
	1923D	1474E	2219	1.000 (25.4)	1692E	3496	394	
	1923E	1837	2220	1.500 (38.1)	1889	3497	395	
	1923F	1838	2221	2.000 (50.8)	1899	3498	396	
10-32 THREAD								
.312 (7.9)	1475A	1822A	1821A	.375 (9.5)	3499A	3500A	468	.312 (7.9)
	1475B	1822B	1821B	.500 (12.7)	3499B	3500B	469	
	1475C	1822C	1821C	.625 (15.9)	3499C	3500C	—	
	1475D	1822D	1821D	.750 (19.1)	3499D	3500D	470	
	1475F	1822F	1821F	1.000 (25.4)	3499F	3500F	471	

NOTE: All standoffs over 1.000 (25.4) are tapped .375 (9.5) min. both ends, except 4-40 standoffs which are tapped .250 (6.4) min.

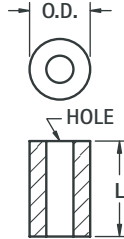
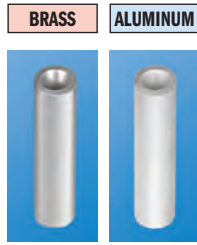
THREADED STANDOFFS

ROUND CLEAR HOLE SPACERS

SPACERS & STANDOFFS

CLEAR HOLE	O.D.	L LENGTH	BRASS CAT. NO.	ALUMINUM CAT. NO.
.120 (3.0) For #4	.250 (6.4)	.125 (3.2)	1909	2036
		.250 (6.4)	1454A	3457
		.375 (9.5)	1454B	3458
		.500 (12.7)	1454C	3459
		.625 (15.9)	1919	2314
		.750 (19.1)	1454D	3460
		.875 (22.2)	1920	3402
		1.000 (25.4)	1454E	3461
		1.500 (38.1)	1924	3462
		2.000 (50.8)	1925	3463
.140 (3.5) For #6	.250 (6.4)	.125 (3.2)	1934	3403
		.250 (6.4)	1457A	3464
		.375 (9.5)	1457B	3465
		.500 (12.7)	1457C	3466
		.625 (15.9)	1935	3429
		.750 (19.1)	1457D	3467
		.875 (22.2)	1936	3438
		1.000 (25.4)	1457E	3468
		1.500 (38.1)	1937	3469
		2.000 (50.8)	1938	3470
.171 (4.3) For #8	.250 (6.4)	.125 (3.2)	1942	4258
		.250 (6.4)	1480	3471
		.375 (9.5)	1481	3472
		.500 (12.7)	1482	3473
		.625 (15.9)	2032	4259
		.750 (19.1)	1483	3474
		.875 (22.2)	2033	4260
		1.000 (25.4)	1484	3475
		1.500 (38.1)	2034	3476
		2.000 (50.8)	2035	3477
.196 (5.0) For #10	.312 (7.9)	.250 (6.4)	1662	4261
		.375 (9.5)	1663	4262
		.500 (12.7)	1664	4263
		.625 (15.9)	1665	4264
		.750 (19.1)	1666	4265
		.875 (22.2)	1667	4266
		1.000 (25.4)	1668	4267
		1.500 (38.1)	1669	4268
		2.000 (50.8)	1672	4269

MATERIAL:
 Brass: ASTM-B16, Nickel Plate (QQ-N-290)
 Aluminum: ASTM B211, Clear Iridite (MIL-C-5541)
 Nylon: Nylon 6/6, UL Rated 94V-2
 Phenolic: PBE Grade Natural Color Phenolic



NYLON CAT. NO.	PHENOLIC CAT. NO.	L LENGTH	O.D.	CLEAR HOLE
875	—	.125 (3.2)	.250 (6.4)	.120 (3.0) For #4
876	360	.250 (6.4)		
877	361	.375 (9.5)		
878	362	.500 (12.7)		
879	—	.625 (15.9)		
880	363	.750 (19.1)		
881	—	.875 (22.2)		
882	364	1.000 (25.4)		
779	365	1.500 (38.1)		
—	366	2.000 (50.8)		
883	—	.125 (3.2)	.250 (6.4)	.140 (3.5) For #6
884	367	.250 (6.4)		
885	368	.375 (9.5)		
886	369	.500 (12.7)		
887	—	.625 (15.9)		
888	370	.750 (19.1)		
889	—	.875 (22.2)		
890	371	1.000 (25.4)		
789	372	1.500 (38.1)		
—	373	2.000 (50.8)		
891	—	.125 (3.2)	.250 (6.4)	.171 (4.3) For #8
892	1490	.250 (6.4)		
893	1491	.375 (9.5)		
894	1492	.500 (12.7)		
895	—	.625 (15.9)		
896	1493	.750 (19.1)		
897	—	.875 (22.2)		
898	1494	1.000 (25.4)		
799	374	1.500 (38.1)		
—	375	2.000 (50.8)		
790	453	.250 (6.4)	.312 (7.9)	.196 (5.0) For #10
791	454	.375 (9.5)		
792	455	.500 (12.7)		
793	—	.625 (15.9)		
794	456	.750 (19.1)		
795	—	.875 (22.2)		
796	457	1.000 (25.4)		
797	458	1.500 (38.1)		
—	459	2.000 (50.8)		

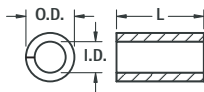
ALUMINUM ECONOMY SPACERS

- Made of flat strip aluminum and rolled on precision equipment.
- Assures maximum bearing surface, square ends.

Aluminum:
5052-H34 per QQ-A-250/8b



Tight Joint on Outside Diameter



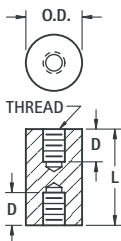
SPACER FOR	I.D.	O.D. REF.
# 4	.120 (3.0)	.167 (4.3)
# 6	.148 (3.8)	.193 (4.9)
# 8	.176 (4.5)	.232 (5.9)

L LENGTH	SCREW CLEARANCE		
	# 4 CAT. NO.	# 6 CAT. NO.	# 8 CAT. NO.
.187 (4.7)	397	—	—
.250 (6.4)	398	405	412
.312 (7.9)	399	406	413
.375 (9.5)	400	407	414
.437 (11.1)	401	408	415
.500 (12.7)	402	409	416
.625 (15.9)	403	410	417

L LENGTH	SCREW CLEARANCE		
	# 4 CAT. NO.	# 6 CAT. NO.	# 8 CAT. NO.
.750 (19.1)	418	425	432
.875 (22.2)	419	426	433
1.000 (25.4)	420	427	434
1.250 (31.8)	421	428	435
1.500 (38.1)	422	429	436
1.750 (44.5)	—	430	437
2.000 (50.8)	—	—	438

CERAMIC STANDOFFS

- Ideal for very high temperature conditions
- Commercial and military types available
- Military types meet MIL-1-010, NL # clearly marked
- Exceptional strength in compression and tension
- Withstands very high voltage without flashover
- Special sizes available upon request



MATERIAL: Grade L5 Ceramic

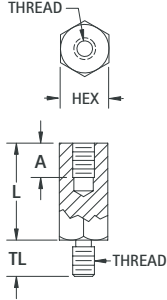
CAT. NO.	L LENGTH	O.D.	COMMERCIAL	
			T THREAD	D DEPTH
7710	250 (6.4)	250 (6.4)	6-32	THRU
7711	.500 (12.7)	.250 (6.4)	6-32	.156 (4.0)
7712	.375 (9.5)	.375 (9.5)	6-32	.156 (4.0)
7713	.500 (12.7)	.375 (9.5)	6-32	.156 (4.0)
7714	.500 (12.7)	.500 (12.7)	6-32	.140 (3.6)
7715	.750 (19.1)	.500 (12.7)	6-32	.250 (6.4)
7716	1.000 (25.4)	.500 (12.7)	6-32	.375 (9.5)
7717	1.500 (38.1)	.500 (12.7)	6-32	.562 (14.3)
7718	2.500 (63.5)	.500 (12.7)	6-32	.500 (12.7)
7719	2.500 (63.5)	.750 (19.1)	1/4 - 20	.750 (19.1)
7720	4.000 (101.6)	.750 (19.1)	1/4 - 20	.750 (19.1)

MILITARY

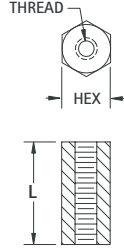
CAT. NO.	L LENGTH	O.D.	T THREAD	D DEPTH	NL #
7661	.500 (12.7)	.375 (9.5)	6-32	.156 (4.0)	NL523W01-004
7662	.625 (15.9)	.375 (9.5)	6-32	.250 (6.4)	NL523W01-005
7663	.625 (15.9)	.500 (12.7)	8-32	.187 (4.7)	NL523W02-005
7664	.750 (19.1)	.375 (9.5)	6-32	.250 (6.4)	NL523W01-006
7665	.750 (19.1)	.500 (12.7)	8-32	.250 (6.4)	NL523W02-006
7666	1.000 (25.4)	.375 (9.5)	6-32	.375 (9.5)	NL523W01-008
7667	1.000 (25.4)	.500 (12.7)	8-32	.375 (9.5)	NL523W02-008
7668	1.000 (25.4)	.750 (19.1)	10-32	.375 (9.5)	NL523W03-008
7669	1.250 (31.8)	.375 (9.5)	6-32	.375 (9.5)	NL523W01-010
7670	1.250 (31.8)	.500 (12.7)	8-32	.375 (9.5)	NL523W02-010
7671	1.250 (31.8)	1.000 (25.4)	1/4 - 20	.437 (11.1)	NL523W04-010
7672	1.500 (38.1)	.375 (9.5)	6-32	.375 (9.5)	NL523W01-012
7673	1.500 (38.1)	.500 (12.7)	8-32	.375 (9.5)	NL523W02-012
7674	1.500 (38.1)	.750 (19.1)	10-32	.375 (9.5)	NL523W03-012
7675	1.500 (38.1)	1.000 (25.4)	1/4 - 20	.500 (12.7)	NL523W04-012
7676	2.000 (50.8)	.375 (9.5)	6-32	.375 (9.5)	NL523W01-016
7677	2.000 (50.8)	.500 (12.7)	8-32	.375 (9.5)	NL523W02-016
7678	2.000 (50.8)	.750 (19.1)	10-32	.375 (9.5)	NL523W03-016

METRIC STANDOFFS

MALE/FEMALE



FEMALE

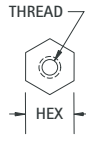


THREAD SIZE	TL	A
M2.5	4.0	5.0
M3	8.0	8.0
M4	10.0	11.0

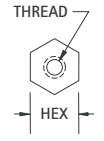
METRIC NYLON STANDOFFS

Material: Nylon: 6/6, UL Rated 94V-2

MALE/FEMALE



FEMALE



THREAD SIZE	A
M3	8.0
M4	9.5

MALE/FEMALE CAT. NO.	L	FEMALE CAT. NO.
5.0 HEX (M3 THREAD)		
—	6.0	25508
—	8.0	25509
25501	10.0	25510
25502	12.0	25511
25503	15.0	25512
25504	18.0	25513
25505	20.0	25514
25506	25.0	25515
6.0 HEX (M4 THREAD)		
—	6.0	25528
—	8.0	25529
25521	10.0	25530
25522	12.0	25531
25523	15.0	25532
25524	18.0	25533
25525	20.0	25534
25526	25.0	25535

Note: Female standoffs longer than 19mm are tapped from both ends

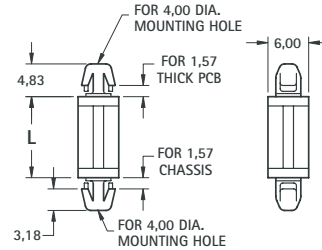
CHOICE OF:		
Stainless: ASTM A581/A582	Brass: ASTM-B16 Plating: Nickel (QQ-N-290)	Aluminum: ASTM B211 Plating: Clear Iridite (Mil-C-5541)

MALE/FEMALE				FEMALE		
STAINLESS CAT. NO.	BRASS CAT. NO.	ALUMINUM CAT. NO.	L	STAINLESS CAT. NO.	BRASS CAT. NO.	ALUMINUM CAT. NO.
4.5 HEX DIA. (M2.5 THREAD)						
—	—	—	5.0	24460	24380	24420
—	—	—	6.0	24461	24381	24421
—	—	—	8.0	24462	24382	24422
24283	24307	24331	10.0	24463	24383	24423
24284	24308	24332	12.0	24464	24384	24424
24285	24309	24333	15.0	24465	24385	24425
24286	24310	24334	18.0	24466	24386	24426
24287	24311	24335	20.0	24467	24387	24427
24288	24312	24336	25.0	24468	24388	24428
5.0 HEX DIA. (M3 THREAD)						
—	—	—	5.0	24470	24390	24430
—	—	—	6.0	24471	24391	24431
—	—	—	8.0	24472	24392	24432
24289	24313	24337	10.0	24473	24393	24433
24290	24314	24338	12.0	24474	24394	24434
24291	24315	24339	15.0	24475	24395	24435
24292	24316	24340	18.0	24476	24396	24436
24293	24317	24341	20.0	24477	24397	24437
24294	24318	24342	25.0	24478	24398	24438
5.5 HEX DIA. (M3 THREAD)						
—	—	—	5.0	24480	24400	24440
—	—	—	6.0	24481	24401	24441
—	—	—	8.0	24482	24402	24442
24295	24319	24343	10.0	24483	24403	24443
24296	24320	24344	12.0	24484	24404	24444
24297	24321	24345	15.0	24485	24405	24445
24298	24322	24346	18.0	24486	24406	24446
24299	24323	24347	20.0	24487	24407	24447
24300	24324	24348	25.0	24488	24408	24448
6.0 HEX DIA. (M4 THREAD)						
—	—	—	5.0	24490	24410	24450
—	—	—	6.0	24491	24411	24451
—	—	—	8.0	24492	24412	24452
24301**	24325**	24349**	10.0	24493	24413	24453
24302*	24326*	24350*	12.0	24494	24414	24454
24303	24327	24351	15.0	24495	24415	24455
24304	24328	24352	18.0	24496	24416	24456
24305	24329	24353	20.0	24497	24417	24457
24306	24330	24354	25.0	24498	24418	24458

* Internal Thread: 8.0mm deep ** Internal Thread: 6.0mm deep
Note: Female standoffs longer than 19mm are tapped from both ends

METRIC NYLON LOCK-IN SUPPORT

- One end locks into chassis, the other end locks into the PC Board.

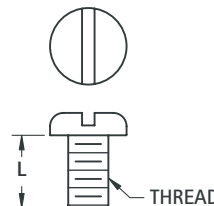


CAT. NO.	L DIM
8843	3.0
8844	4.0
8845	6.0
8846	8.0
8847	10.0
8848	12.0
8849	14.0
8850	16.0
8851	18.0

Material: Nylon 6/6, UL Rated 94V-0

METRIC SCREWS

Choice of: Steel, Zinc Plate • Nylon: 6/6, UL Rated 94V-2



STEEL CAT. NO.	L	NYLON 6/6 CAT. NO.
M2.5 THREAD		
29301	6.00	29331
29304	12.00	29334
29306	16.00	29336
M3 THREAD		
29311	6.00	29341
29314	12.00	29344
29316	16.00	29346
29318	25.00	29348
M4 THREAD		
29321	6.00	29351
29324	12.00	29354
29326	16.00	29356
29328	25.00	29358