

NOT MEASUREMENT
SENSITIVE

MIL-H-87111A
SUPPLEMENT 1C
24 Oct 1990
SUPERSEDING
SUPPLEMENT 1B
26 November 1986

MILITARY SPECIFICATION
HEAT SINK, ELECTRICAL-ELECTRONIC COMPONENT
GENERAL SPECIFICATION FOR

This supplement forms a part of
MIL-H-87111A, dated 7 September 1984.

SPECIFICATION SHEETS

- MIL-H-87111/1 - Heat Sinks-Insulators, Class 1, 4, 6, and 7 (Wafer Type).
- MIL-H-87111/2 - Heat Sinks, Semiconductor Devices, Class 2, 3, and 5 (Retainer Clip Type).
- MIL-H-87111/3 - Heat Sinks, Electrical-Electronic Component, Class 1 and 2 (Press-On Type).
- MIL-H-87111/4 - Heat Sinks, Semiconductor Devices, Class 1 (Encapsulating Type).
- MIL-H-87111/5 - Heat Sinks, Semiconductor Devices, Class 1 (Formed).
- MIL-H-87111/6 - Heat Sinks, Semiconductor Devices, Class 1 (Extruded).
- MIL-H-87111/7 - Heat Sinks, Semiconductor Devices, Class 1 (Dual In-line Packages).
- MIL-H-87111/8 - Heat Sinks, Semiconductor Devices, Class 2 (Dual Link).

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Cross-reference of part numbers.

Military part number	Commercial part number						
	CAGE	CAGE	CAGE	CAGE	CAGE	CAGE	CAGE
M87111/01-	05327	05820	08289	13103	55285	55285	8W262
					(class 6)	(class 7)	
1H01				14864-01A, 4703-A			
1H02				14864-02A, 4726-A			
1H03		170 HC					
1H04		171 HC					
1H05			DA-107				
1H06				14864-6A, 4706-A			
1H07				14864-7A, 4766-A			
1H08		172 HC					
1H09				14864-9A, 4796-A			
1H10				14864-10A, 4707-A			
1H11				14864-11A, 4777-A			
1H12				14864-12A, 4778-A			
1H13				14864-13A, 4710-A			
1H14				14864-14A, 4705-A			
4Y15	CG-3838		BTO-3				
4Y16	CG-3139	177-18-30		4018			
4Y17	CG-3138	177-5-30		4005			
4Y18	CG-3834	177-8-62	BTO-8	4008			
4Y19		177-36-62		4036			
4Y20	CG-3839		BTO-12				
4Y21	CA-3851		BTO-3C	4013			
4Y22				4089			
4Y23	CG-3841		BMS-3				
4Y24	CG-2258	177-66-62	BTO-66	4066			
4Y25		177-3-62		4033			
4Y26	CG-3569	177-47-23-04		B-420-235-40			
4Y27		177-51-20-04		B-510-200-40			
4Y28	CG-3843	177-80-26-06		B-800-260-62			
4Y29		177-80-32-06		B-800-320-62			
4Y30		177-90-32-06		B-900-320-62			
4Y31	CF-5048						
4Y32	CF-4950						
4Y33	CF-4919						
1H34							
*Y35							
*Y36							
*Y37					1009-09	7403-09FR-09	60-11-4374-1678
*Y38							
*Y39					1009-08	7403-09FR-08	
*Y40					1009-33	7403-09FR-33	

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Military part number	Commercial part number			
	CAGE 13103	CAGE 55285 (class 6)	CAGE 55285 (class 7)	CAGE 8W262
*Y41				
*Y42				
*Y43				
*Y44				
*Y45	53-66-2	1009-11	7403-09FR-11	60-11-5527-1678
*Y46	53-66-11	1009-31	7403-09FR-31	60-11-4305-1678
*Y47	53-66-13	1009-10	7403-09FR-10	
*Y48	53-66-17	1009-03	7403-09FR-03	60-11-4511-1678
*Y49		1009-18	7403-09FR-18	60-11-D371-1678
*Y50				60-11-6875-1678
*Y51		1009-23	7403-09FR-23	60-11-4996-1678
*Y52	53-03-18	1009-29	7403-09FR-29	60-11-D406-1678
*Y53	53-03-19	1009-04	7403-09FR-04	60-11-4659-1678
*Y54		1009-05	7403-09FR-05	60-11-D410-1678
*Y55	53-03-20	1009-06	7403-09FR-06	60-11-4661-1678
*Y56	53-03-16	1009-24	7403-09FR-24	
*Y57	53-03-22	1009-15	7403-09FR-15	
*Y58		1009-91	7403-09FR-91	
*Y59	53-02-2	1009-20	7403-09FR-20	
*Y60	53-02-15	1009-22	7403-09FR-22	
*Y61		1009-21	7403-09FR-21	
*Y62	53-02-20	1009-25	7403-09FR-25	
*Y63				
*Y64				
*Y65				
*Y66				
*Y67				
*Y68				
*Y69				

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Cross-reference of part numbers - Continued.

Military part number MB7111/02- ^{2/}	Commercial part number				
	CAGE 05327	CAGE 05820	CAGE 08289	CAGE 13103	CAGE 98978
2*01					TXBE-019-021
2*02					TXBE-032-031
2*03					TXBE-050-028
2*04					TXB2-019-028
2*05		260-4T5			TXB2-032-037
2*06					TXB2-050-037
3*07	0A-2805				TX1805
3*08	0A-2801	260-P5B	A-2801		TX505
3*09	0A-2803		A-2803		
3*10			A-2804		
3*11		260-4SH18B			TX1806
3*12		260-6SH5B			TX0506-1
3*13				1130	
3*14		260-2TH18B			
3*15		260-4TH5B			
2*16	0A-2802				TXB2P-032-037
2*17					TX0547
2*18					TX1847
5*19					
5*20		260-6SH5E			TX30507-1
2*21	0A-2806				TXB2P-019-028
2*22	0A-2804				TXB2P-050-037
5*23		260-2TH18E			TX31847
5*24		260-4TH5E			TX30547
5*25					TBA
5*26					TXB3-019-035
5*27					TXB3-032-037
2*28					TX1807-1
2*29					TX1807

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Cross-reference of part numbers - Continued.

Military ^{3/} part number M87111/03-	Commercial part number		
	CAGE 05820	CAGE 07387	CAGE 98978
2-01	201CB		
2-02	202CB		
2-03	204CB		
2-04	205CB		
2-05	203CB		
2-06			
2-07	207CB		
2-08			
2-09	213CB		
2-10			TXBF-019-025
2-11			TXBF-032-025
2-12			TXBF2-032-036
2-13			TXBF2-050-033
1-14		3AL635	
1-15		3AL6351G	
1-16		3AL6352R	
1-17		3AL6353B	
1-18		3AL6354A	
1-19		3AL6355G	
1-20		3AL6356OR	
1-21		3AL6357PR	
1-22		3AL6358BR	
1-23		3AL6359Y	
1-24		3AL6691GR	
1-25		3AL6692R	
1-26		3AL6693B	
1-27		3AL675	
1-28		3AL6751G	
1-29		3AL6752R	
1-30		3AL6753B	
1-31		3AL6754A	
1-32		3AL6755GR	
1-33		3AL6756OR	
1-34		3AL697	
1-35		3AL6971G	
1-36		3AL6972R	
1-37		3AL6973B	
1-38		3AL6974A	
1-39			
1-40			
1-41			
1-42			
1-43			
1-44			
1-45			
1-46			
1-47			
2-48	215CB		

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Cross-reference of part numbers - Continued.

Military part number M87111/04-	3/ Commercial part number CAGE 13103
1-01	14866-01, 2207/PR11
1-02	14866-02, 2215A
1-03	14866-03, 2212A-5
1-04	14866-04, 1101
1-05	14866-05, 1103
1-06	2205A
1-07	2240B

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Cross-reference of part numbers - Continued.

Military part number MB7111/05-	Commercial part number	
	CAGE 13103	CAGE 98978
1-001	14867-10H1*	
1-002	14867-09H1*	
1-003	14867-01H1*	
1-004	14867-02H1*	
1-005	14867-03H1*	
1-006	14867-04H1*	
1-007	14867-05H1*	UP1-T06
1-008	14867-06H1*	UP2-T06
1-009	14867-07H1*	UP-T06
1-010	14867-08H1*	
1-011	14867-10H2*	
1-012	14867-09H2*	
1-013	14867-01H2*	LA517B2
1-014	14867-02H2*	LA517B3
1-015	14867-03H2*	LA517B4
1-016	14867-04H2*	LA517B5
1-017	14867-05H2*	
1-018	14867-06H2*	
1-019	14867-07H2*	
1-020	14867-08H2*	
1-021	14867-10H3*	
1-022	14867-09H3*	
1-023	14867-01H3*	
1-024	14867-02H3*	
1-025	14867-03H3*	
1-026	14867-04H3*	
1-027	14867-05H3*	
1-028	14867-06H3*	
1-029	14867-07H3*	
1-030	14867-08H3*	
1-031	14867-10H4*	
1-032	14867-09H4*	
1-033	14867-01H4*	
1-034	14867-02H4*	
1-035	14867-03H4*	
1-036	14867-04H4*	
1-037	14867-05H4*	
1-038	14867-06H4*	
1-039	14867-07H4*	
1-040	14867-08H4*	

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Military part number M87111/05-	Commercial part number	
	CAGE 13103	CAGE 98978
1-041	14867-10H5*	
1-042	14867-09H5*	
1-043	14867-01H5*	
1-044	14867-02H5*	
1-045	14867-03H5*	
1-046	14867-04H5*	
1-047	14867-05H5*	
1-048	14867-06H5*	
1-049	14867-07H5*	
1-050	14867-08H5*	
1-051	14867-10H6*	
1-052	14867-09H6*	
1-053	14867-01H6*	LAIC3B2
1-054	14867-02H6*	LAIC3B3
1-055	14867-03H6*	LAIC3B4
1-056	14867-04H6*	LAIC3B5
1-057	14867-05H6*	UP1-T03-46
1-058	14867-06H6*	UP2-T03-46
1-059	14867-07H6*	UP-T03-46
1-060	14867-08H6*	
1-061	14867-10H7*	
1-062	14867-09H7*	
1-063	14867-01H7*	LAIC8B2
1-064	14867-02H7*	LAIC8B3
1-065	14867-03H7*	LAIC8B4
1-066	14867-04H7*	LAIC8B5
1-067	14867-05H7*	UP1-T08-51
1-068	14867-06H7*	UP2-T08-51
1-069	14867-07H7*	UP-T08-51
1-070	14867-08H7*	TBA
1-071	14867-071*	
1-072	14867-072*	
1-073	14867-073*	TBA
1-074	14867-074*	
1-075	14867-075*	
1-076	14867-076*	
1-077	14867-077*	
1-078	14867-078*	
1-079	14867-079*	
1-080	14867-080*	

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Cross-reference of part numbers - Continued.

Military part number M87111/05-	Commercial part number		
	CAGE 05820	CAGE 13103	CAGE 98978
1-081	690-3B	14867-081*	
1-082		14867-082*	
1-083	635-50B2	14867-083*	LA336B2
1-084	635-75B2	14867-084*	LA336B3
1-085	635-10B2	14867-085*	LA336B4
1-086	635-125B2	14867-086*	LA336B5
1-087		14867-087*	
1-088		14867-088*	
1-089		14867-089*	
1-090		14867-090*	
1-091	690-66B	14867-091*	
1-092		14867-092*	
1-093		14867-093*	
1-094		14867-094*	
1-095		14867-095*	
1-096		14867-096*	
1-097		14867-097*	TBA
1-098		14867-098*	TBA
1-099		14867-099*	TBA
1-100		14867-100*	TBA
1-101	690-220B	14867-101*	
1-102		14867-102*	
1-103		14867-103*	
1-104		14867-104*	
1-105		14867-105*	
1-106		14867-106*	
1-107		14867-107*	
1-108		14867-108*	
1-109		14867-109*	
1-110		14867-110*	
1-111		14867-111*	
1-112		14867-112*	
1-113		14867-113*	
1-114		14867-114*	
1-115		14867-115*	
1-116		14867-116*	
1-117		14867-117*	UP1-T03-78
1-118		14867-118*	UP2-T03-78
1-119		14867-119*	UP-T03-78
1-120		14867-120*	
1-121		14867-121*	
1-122		14867-122*	

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Cross-reference of part numbers - Continued.

Military part number M87111/05-	Commercial part number	
	CAGE 13103	CAGE 98978
1-123	14867-123*	
1-124	14867-124*	
1-125	14867-125*	
1-126	14867-126*	
1-127	14867-127*	UP1-T066-53
1-128	14867-128*	UP2-T066-53
1-129	14867-129*	UP-T066-53
1-130	14867-130*	TBA
1-131	14867-131*	
1-132	14867-132*	
1-133	14867-133*	
1-134	14867-134*	
1-135	14867-135*	
1-136	14867-136*	
1-137	14867-137*	TBA
1-138	14867-138*	TBA
1-139	14867-139*	TBA
1-140	14867-140*	TBA
1-141	14867-141*	
1-142	14867-142*	
1-143	14867-143*	
1-144	14867-144*	
1-145	14867-145*	
1-146	14867-146*	
1-147	14867-147*	
1-148	14867-148*	
1-149	14867-149*	
1-150	14867-150*	
1-151	14867-151*	
1-152	14867-152*	
1-153	14867-153*	TBA
1-154	14867-154*	
1-155	14867-155*	
1-156	14867-156*	
1-157	14867-157*	
1-158	14867-158*	
1-159	14867-159*	
1-160	14867-160*	
1-161	14867-161*	
1-162	14867-162*	
1-163	14867-163*	LA066B2

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Cross-reference of part numbers - Continued.

Military part number M87111/05-	Commercial part number		
	CAGE 05820	CAGE 13103	CAGE 98978
1-164		14867-164*	LAD66B3
1-165		14867-165*	LAD66B4
1-166		14867-166*	LAD66B5
1-167		14867-167*	
1-168		14867-168*	
1-169		14867-169*	
1-170		14867-170*	
1-171		14867-171*	
1-172		14867-172*	
1-173		14867-173*	LAT03B2
1-174		14867-174*	LAT03B3
1-175		14867-175*	LAT03B4
1-176		14867-176*	LAT03B5
1-177		14867-177*	
1-178		14867-178*	
1-179		14867-179*	
1-180		14867-180*	
1-181		14867-181*	
1-182		14867-182*	
1-183		14867-183*	
1-184		14867-184*	
1-185		14867-185*	
1-186		14867-186*	
1-187		14867-187*	UP1-T03-
1-188		14867-188*	UP2-T03-
1-189		14867-189*	UP-T03-
1-190		14867-190*	
1-191	680-5B	14867-191*	
1-192	680-75B	14867-192*	
1-193	680-10B	14867-193*	
1-194	680-125B	14867-194*	
1-195		14867-195*	
1-196		14867-196*	
1-197		14867-197*	
1-198		14867-198*	
1-199		14867-199*	
1-200		14867-200*	
1-201		14867-201*	
1-202		14867-202*	
1-203		14867-203*	
1-204		14867-204*	
1-205		14867-205*	

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Military ^{3/} part number M87111/05-	Commercial part number	
	CAGE 13103	CAGE 98978
1-206	14867-206*	
1-207	14867-207*	
1-208	14867-208*	
1-209	14867-209*	
1-210	14867-210*	
1-211	14867-211*	
1-212	14867-212*	
1-213	14867-213*	
1-214	14867-214*	LA535A1-
1-215	14867-215*	LA535A2-
1-216	14867-216*	LA535A3-
1-217	14867-217*	LA535A4-
1-218	14867-218*	
1-219	14867-219*	
1-220	14867-220*	
1-221	14867-221*	
1-222	14867-222*	
1-223	14867-223*	
1-224	14867-224*	
1-225	14867-225*	
1-226	14867-226*	
1-227	14867-227*	
1-228	14867-228*	
1-229	14867-229*	
1-230	14867-230*	
1-231	14867-231*	
1-232	14867-232*	
1-233	14867-233*	
1-234	14867-234*	
1-235	14867-235*	
1-236	14867-236*	
1-237	14867-237*	
1-238	14867-238*	
1-239	14867-239*	
1-240	14867-240*	
1-241	14867-241*	
1-242	14867-242*	
1-243	14867-243*	
1-244	14867-244*	
1-245	14867-245*	
1-246	14867-246*	
1-247	14867-247*	

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Cross-reference of part numbers - Continued.

3/ Military part number M87111/05-	Commercial part number	
	CAGE 13103	CAGE 98978
1-248	14867-248*	
1-249	14867-249*	
1-250	14867-250*	
1-251	14867-251*	
1-252	14867-252*	
1-253	14867-253*	
1-254	14867-254*	
1-255	14867-255*	
1-256	14867-256*	
1-257	14867-257*	
1-258	14867-258*	
1-259	14867-259*	
1-260	14867-260*	
1-261	14867-261*	
1-262	14867-262*	
1-263	14867-263*	
1-264	14867-264*	
1-265	14867-265*	
1-266	14867-266*	
1-267	14867-267*	
1-268	14867-268*	
1-269	14867-269*	
1-270	14867-270*	
1-271	14867-271*	
1-272	14867-272*	
1-273	14867-273*	
1-274	14867-274*	
1-275	14867-275*	
1-276	14867-276*	
1-277	14867-277*	TBA
1-278	14867-278*	TBA
1-279	14867-279*	TBA
1-280	14867-280*	TBA
1-281	14867-281*	
1-282	14867-282*	
1-283	14867-283*	
1-284	14867-284*	
1-285	14867-285*	
1-286	14867-286*	
1-287	14867-287*	
1-288	14867-288*	
1-289	14867-289*	

See footnotes at end of table.

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NOTE: The following table is not a qualified products list or an approved parts list. It should be construed only as a guide intended to illustrate general similarities between military and commercial parts, with military parts being preferred in engineering designs. Military part numbers shall be used for ordering purposes. A CAGE code reference listing appears at the end of this supplement.

Cross-reference of part numbers - Continued.

Military part number M87111/05-	Commercial part number		
	CAGE 05820	CAGE 13103	CAGE 98978
1-290	680-5A	14867-290*	
1-291	680-75A	14867-291*	
1-292	680-10A	14867-292*	
1-293	680-125A	14867-293*	
1-294		14867-294*	
1-295		14867-295*	
1-296		14867-296*	
1-297		14867-297*	
1-298		14867-298*	
1-299	680-5G1	14867-299*	
1-300	680-75G1	14867-300*	
1-301	680-10G1	14867-301*	
1-302	680-125G1	14867-302*	
1-303		14867-303*	
1-304		14867-304*	
1-305		14867-305*	
1-306		14867-306*	
1-307		14867-307*	
1-308	680-5-220	14867-308*	
1-309	680-75-220	14867-309*	
1-310	680-10-220	14867-310*	
1-311	680-125-220	14867-311*	
1-312		14867-312*	
1-313		14867-313*	
1-314		14867-314*	
1-315		14867-315*	
1-316		14867-316*	
1-317		14867-317*	
1-318		14867-318*	
1-319		14867-319*	
1-320		14867-320*	
1-321		14867-321*	
1-322		14867-322*	TBA
1-323		14867-323*	TBA
1-324		14867-324*	TBA
1-325		14867-325*	TBA
1-326		14867-326*	
1-327		14867-327*	
1-328		14867-328*	
1-329		14867-329*	
1-330		14867-330*	

See footnotes at end of table.

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Cross-reference of part numbers - Continued.

Military part number M87111/05-	Commercial part number		
	CAGE 05820	CAGE 13103	CAGE 98978
1-331		14867-331*	TBA
1-332		14867-332*	TBA
1-333		14867-333*	TBA
1-334		14867-334*	TBA
1-335		14867-335*	
1-336		14867-336*	
1-337		14867-337*	
1-338		14867-338*	
1-339		14867-339*	
1-340		14867-340*	LAD66A1-
1-341		14867-341*	LAD66A2-
1-342		14867-342*	LAD66A3-
1-343		14867-343*	LAD66A4-
1-344		14867-344*	
1-345		14867-345*	
1-346		14867-346*	
1-347		14867-347*	
1-348		14867-348*	
1-349		14867-349*	
1-350		14867-350*	
1-351		14867-351*	
1-352		14867-352*	
1-353		14867-353*	
1-354		14867-354*	
1-355		14867-355*	
1-356		14867-356*	
1-357		14867-357*	
1-358		14867-358*	
1-359		14867-359*	
1-360		14867-360*	
1-361		14867-361*	
1-362		14867-362*	7-405-01D
1-363		14867-363*	7-406-01D
1-364		14867-364*	7-407-01D
1-365		14867-365*	7-408-01D
1-366		14867-366*	7-437-03D
1-367		14867-367*	7-438-03D
1-368		14867-368*	7-439-03D
1-369	270AB	14867-369*	7-321-
1-370	273AB	14867-370*	7-195-2

See footnotes at end of table.

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Cross-reference of part numbers - Continued.

Military part number M87111/06-	Commercial part number				
	CAGE 05820	CAGE 08289	CAGE 13103	CAGE 53894	CAGE 98978
1-01			14874-01H1*		
1-02	1194(mod)	available	14874-02H1*	4200-X-X-X-XX	
1-03	641-B		14874-03H1*	1500-X-X-X-XX	TBA
1-04	421-B		14874-04H1*	A4000-X-X-X-XX	TBA
1-05	431-B		14874-05H1*	5055-X-X-X-XX	TBA
1-06	413-B		14874-06H1*	4050-X-X-X-XX	TBA
1-07	4319(mod)		14874-07H1*	1060-X-X-X-XX	TBA
1-08			14874-01H2*		
1-09	1194(mod)	available	14874-02H2*	4200-X-X-X-XX	
1-10	641-series		14874-03H2*	1500-X-X-X-XX	TBA
1-11	421-series		14874-04H2*	A4000-X-X-X-XX	TBA
1-12	431-series		14874-05H2*	5055-X-X-X-XX	TBA
1-13	413-series		14874-06H2*	4050-X-X-X-XX	TBA
1-14	4319(mod)		14874-07H2*	1060-X-X-X-XX	TBA
1-15			14874-01H3*		
1-16	1194(mod)	available	14874-02H3*	4200-X-X-X-XX	
1-17	641-E		14874-03H3*	1500-X-X-X-XX	TBA
1-18	421-E		14874-04H3*	A4000-X-X-X-XX	TBA
1-19	431-E		14874-05H3*	5055-X-X-X-XX	TBA
1-20	413-E		14874-06H3*	4050-X-X-X-XX	TBA
1-21	4319(mod)		14874-07H3*	1060-X-X-X-XX	TBA
1-22			14874-01H4*		
1-23	1194(mod)	available	14874-02H4*	4200-X-X-X-XX	
1-24	641-F		14874-03H4*	1500-X-X-X-XX	TBA
1-25	421-F		14874-04H4*	A4000-X-X-X-XX	TBA
1-26	431-F		14874-05H4*	5055-X-X-X-XX	TBA
1-27	413-F		14874-06H4*	4050-X-X-X-XX	TBA
1-28	4319(mod)		14874-07H4*	1060-X-X-X-XX	TBA
1-29			14874-01H5*		
1-30	1194(mod)	available	14874-02H5*	4200-X-X-X-XX	
1-31	641-G		14874-03H5*	1500-X-X-X-XX	TBA
1-32	421-G		14874-04H5*	A4000-X-X-X-XX	TBA
1-33	431-G		14874-05H5*	5055-X-X-X-XX	TBA
1-34	413-G		14874-06H5*	4050-X-X-X-XX	TBA
1-35	4319(mod)		14874-07H5*	1060-X-X-X-XX	TBA
1-36			14874-01H6*		
1-37	1194(mod)	available	14874-02H6*	4200-X-X-X-XX	
1-38	641-series		14874-03H6*	1500-X-X-X-XX	TBA
1-39	421-series		14874-04H6*	A4000-X-X-X-XX	TBA
1-40	431-series		14874-05H6*	5055-X-X-X-XX	TBA
1-41	413-series		14874-06H6*	4050-X-X-X-XX	TBA
1-42	4319(mod)		14874-07H6*	1060-X-X-X-XX	TBA

See footnotes at end of table.

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Cross-reference of part numbers - Continued.

3/ Military part number M87111/06-	Commercial part number		
	CAGE 05820	CAGE 08289	CAGE 98978
1-43			
1-44	available	X-121-3BN	
1-45			TBA
1-46			TBA
1-47			TBA
1-48			TBA
1-49			TBA

See footnotes at end of table.

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Cross-reference of part numbers - Continued.

Military part number M87111/07-	Commercial part number				
	CAGE 05820	CAGE 13103	CAGE 30161	CAGE 53894	CAGE 98978
1B01					AP1C025B
1B02					AP1C050B
1B03					AP1C075B
1-04			5802		
1-05			5803		
1-06			5804		
1-07			5805		
1-08			5807		
1B09				139	7-139
1B10				143	7-143
1B11		6011	5011	145	7-145
1B12	651B			141	7-141
1B13	652-5AB	6085	5085	146	7-146
1B14	652-6AB	6086	5086	147	7-147
1B15	652-7AB	6087	5087	148	7-148
1B16	652-8AB	6088	5088	149	7-149
1B17				140	7-140
1B18		6012	5012		
1B19	650B			144	7-144
1B20				142	7-142
1-21	653AB	6010	5010		
1B22				305	
1H23	654HB	6007	5007		
1B23					

See footnotes at end of table.

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Cross-reference of part numbers - Continued.

Military part number	Commercial part number
M87111/08-	CAGE 05820
2D01	259-5-50
2D02	259-18-25
2D03	259-18-40

- 1/ An asterisk in part numbers covered by specification sheet 1 indicates material type and shall be replaced by an appropriate number. Example: M87111/01-6Y35.
- 2/ An asterisk in part numbers covered by specification sheet 2 indicates finish type and shall be replaced by an appropriate letter. Example: M87111/02-2B01.
- 3/ For part numbers containing two dashes, the second dash shall be replaced by an appropriate letter to denote finish. Example: M87111/03-2B01.

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CAGE CODE REFERENCE LISTING

05327	General Ceramics, Incorporated Haskell, NJ
05820	EG and G Wakefield Engineering Wakefield, MA
07387	Birtcher Corporation El Monte, CA
08289	Delbert Blinn Company Pomona, CA
13103	Thermalloy, Incorporated Dallas, TX
30161	Aavid Engineering, Incorporated Laconia, NH
53894	ATI Rancho California, CA
55285	Bergquist Minneapolis, MN
8W262	Chomerics Hudson, NH
98978	International Electronic Research Corporation Burbank, CA

CONCLUDING MATERIAL

Custodians:

Army - ER
Navy - EC
Air Force - 85

Review activities:

Navy - TD
Air Force - 19, 99
DLA - ES

User activities:

Navy - AS, CG, MC, SH

Preparing activity:

Air Force - 85

Agent:

DLA - ES

(Project 5999-0270)