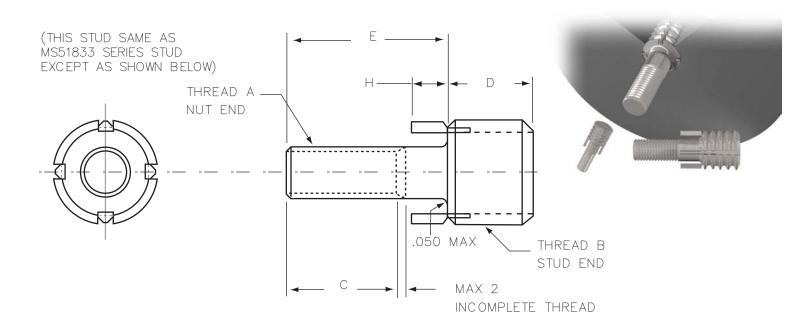
ROLAND AEROSPACE MANUFACTURER OF SPECIALIZED JET ENGINE COMPONENTS 13429 Western Ave. Gardena, California 90249



										, , , , , , , , , , , , , , , , , , , ,
PART NUMBER RA2004	A NUT END THREAD UNJF—3A	STUD EN	3 ND THRD IINOR Ø	С	D	Е	Н	NO. OF KEYS	STUD MATERIAL	LOCKING KEY MATERIAL
		THREAD UNC-2A	MINOR Ø REF							4
RA2004-1	.250-28	.375–16	.320 .312	.470	.370	.688	.190	2	А	D
RA2004-2	250-28	.375–16	.320 .312	.470	.370	.625	.190	2	В	D
RA2004-3	.3125-24	4375–14	.383 .375	.530	.430	.875	.190	4	С	D
RA2004-4	.3125-24	.4375-14	.383 .375	.690	.430	.875	.190	4	С	D
RA2004-5	.500-20	.625–11	.565 .551	.780	.620	1.062	.190	4	С	D
RA2004-6	.375–24	.5625-12	.503 .495	.640	.843	1.000	.190	4	С	D
RA2004-7	.190-32	.3125–18	.256 .249	.410	.310	.562	.160	2	В	D

RA2004-6 SAME AS MS51834 EXCEPT STUD END LENGTH

CAGE CODE	DWG NO. RA2004	Drawn by: And Morel	Date: 6/30/11	
63EM5	REV: NC SHEET 1 OF 2	Approved by:	Date: 06/30/2011	



ROLAND AEROSPACE MANUFACTURER OF SPECIALIZED JET ENGINE COMPONENTS 13429 Western Ave. Gardena, California 90249

PART NUMBER RA2004	A NUT END THREAD UNJF—3A	STUD EI	3 ND THRD IINOR Ø	С	D	E	Н	NO. OF KEYS	STUD MATERIAL	LOCKING KEY MATERIAL
	0.10	THREAD UNC-2A	MINOR Ø REF							4
RA2004-8	.190-32	.3125–18	.256 .249	.440 .380	.327 .297	2.155 2.095	.160	2	В	F
RA2004-9	.190-32	.3125–18	.256 .249	.410	.319	.562	.160	2	В	F
RA2004-10	.250-28	.375–16	.320 .312	.470	.370	.625	.190	2	В	F
RA2004-11	.250–28	.375–16	.320 .312	.500 .440	.780 .720	.630 .570	.190	2	С	F
RA2004-12	.190-32	.3125–18	.256 .249	.875	.327 .297	1.077 1.047	.160	2	С	F

NOTES 1) MATERIAL CODE: A - ALLOY STEEL GRADE 4140 PER MIL-S-5626 OR GRADE 8740 PER AMS 6322

B - 718 PER AMS-5662

C - A-286 PER AMS-5731 OR AMS - 5737 (140 KSI MIN.)

2) HEAT TREAT A - ALLOY STEEL (160 KSI MIN), (RC36-40) I.A.W. MIL-H-6875H

B - 718 AGE HARDENED (180 KSI MIN.)

C - A-286 - AMS-5731 ONLY (140 KSI MIN.)

3) SURFACE TREATMENT: ALLOY STEEL SHALL BE CADMIUM PLATED I.A.W. QQ-P-416, TYPE II, CLASS 3.

> ALLOYS 718 AND A-286 SHALL BE PASSIVATED I.A.W. QQ-P-35C OR AMS-QQ-P-35.

4) MATERIAL LOCKING KEYS: D - 302 STAINLESS STEEL PER ASTM-A580 "CHEMISTRY ONLY"

> F - 420 STAINLESS STEEL PER QQ-S-763 "CHEMISTRY ONLY" HARDNESS TO BE RC50 MINIMUM

5) PERFORMANCE: I.A.W. MILS-45915

6) INSTALLATION OF STUDS PER MS51835

7) DIMENSIONS AND TOLERANCES INTERERPRETED PER ANSI Y14.5M

8) FINISHED STUDS SHALL BE FREE FROM ALL HANGING BURRS OR SLIVERS THAT MIGHT BE DISLODGED DURING INSTALLATION.

9) THREADS: STUD END-I.A.W. FED-STD-H28 EXCEPT MODIFIED MINOR DIAMETERS SPECIFIED HEREIN. NUT END - I.A.W. MIL-S-8879

CAGE CODE	DWG NO. RA2004	Drawn by: The Mosel	Date: 6/30/11		
63EM5	REV: NC SHEET 2 OF 2	Approved by:	Date: 06/30/2011		