

PART NUMBER	A ACROSS FLATS		ØB MIN.		ØD		ØE MAX.		F WRENCH FLATS		G REF.		H		L REF.		R RAD. MAX.		T (HEX ACROSS FLATS)	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
MBF2121-5-(-)	.250 .244	6.35 6.20	.272	6.91	.1645 .1625	4.178 4.128	.1640	4.166	.085 .080	2.16 2.03	.017	0.43	.076 .069	1.930 1.753	.51	12.9	.030	0.76	.375	9.52
MBF2121-6-(-)	.312 .305	7.92 7.75	.340	8.64	.1985 .1965	5.042 4.991	.1985	5.042	.113 .108	2.87 2.74	.027	0.68	.080 .073	2.032 1.845	.57	14.5	.030	0.76	.375	9.52
MBF2121-7-(-)	.343 .336	8.71 8.53	.375	9.52	.2275 .2255	5.778 5.728	.2275	5.778	.121 .116	3.07 2.95	.035	0.89	.080 .073	2.032 1.845	.63	16.0	.030	0.76	.375	9.52
MBF2121-8-(-)	.375 .367	9.52 9.32	.409	10.39	.2595 .2575	6.591 6.541	.2595	6.591	.135 .130	3.43 3.30	.055	1.40	.090 .083	2.286 2.108	.70	17.7	.030	0.76	.375	9.52
MBF2121-9-(-)	.406 .398	10.31 10.11	.444	11.28	.2895 .2875	7.353 7.303	.2895	7.353	.152 .147	3.86 3.73	.065	1.65	.090 .083	2.286 2.108	.81	20.6	.030	0.76	.500	12.70
MBF2121-10-(-)	.437 .429	11.10 10.90	.479	12.17	.3115 .3095	7.912 7.861	.3110	7.899	.152 .147	3.86 3.73	.070	1.78	.112 .105	2.845 2.667	.89	22.6	.040	1.02	.500	12.70
MBF2121-11-(-)	.468 .460	11.89 11.68	.513	13.03	.3435 .3415	8.725 8.674	.3433	8.720	.185 .180	4.70 4.57	.075	1.90	.112 .105	2.845 2.667	.94	23.9	.040	1.02	.500	12.70
MBF2121-12-(-)	.500 .491	12.70 12.47	.548	13.92	.3745 .3725	9.512 9.462	.3740	9.500	.185 .180	4.70 4.57	.080	2.03	.133 .126	3.378 3.200	1.09	27.7	.040	1.02	.500	12.70

PART NUMBER	MIN AVAILABLE GRIP DASH NO.	INSTALLED DIMENSIONS								MECHANICAL PROPERTIES					
		RECOMMENDED HOLE SIZE		ØJ MIN.		K MAX.		BREAK-OFF LIMITS		TENSILE STRUCTURAL FAILURE MIN.		DOUBLE SHEAR MIN.		LOCKING TORQUE MIN.	
		INCH	mm	INCH	mm	INCH	mm	INCH	mm	LBS	N	LBS	N	IN-LBS	N-m
MBF2121-5-(-)	-100	.168 .165	4.27 4.19	.250	6.35	.300	7.62	+1.03 -0.00	+2.62 -0.00	900	4000	3150	14010	1.0	0.113
MBF2121-6-(-)	-100	.202 .199	5.13 5.05	.300	7.62	.350	8.89	+1.03 -0.00	+2.62 -0.00	1400	6230	4600	20460	1.5	0.170
MBF2121-7-(-)	-100	.231 .228	5.88 5.79	.350	8.89	.400	10.16	+1.03 -0.00	+2.62 -0.00	1600	7120	6050	26910	2.0	0.226
MBF2121-8-(-)	-150	.263 .260	6.68 6.60	.400	10.16	.450	11.43	+1.03 -0.00	+2.62 -0.00	2100	9340	7900	35140	2.5	0.282
MBF2121-9-(-)	-150	.293 .290	7.44 7.37	.450	11.43	.500	12.70	+1.03 -0.00	+2.62 -0.00	2600	11565	9800	43590	3.0	0.339
MBF2121-10-(-)	-150	.315 .312	8.00 7.92	.475	12.06	.550	13.97	+1.03 -0.00	+2.62 -0.00	3600	16010	11350	50480	3.5	0.400
MBF2121-11-(-)	-150	.347 .344	8.81 8.74	.525	13.33	.575	14.60	+1.03 -0.00	+2.62 -0.00	4400	19570	13850	61600	4.0	0.452
MBF2121-12-(-)	-150	.378 .375	9.60 9.52	.575	14.60	.625	15.87	+1.03 -0.00	+2.62 -0.00	5000	22240	16450	73170	4.0	0.452

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 (323) 722-4760 FAX (323) 727-1029

TITLE:
BLIND FASTENER, REDUCED PROTRUDING HEX HEAD FOR ADVANCED COMPOSITE MATERIALS A286 CRES

DRAWING NO:
MBF2121-(-)-((-))

DRAWN BY:
G.MARTINEZ

APPROVED BY:

DRAWN DATE:
8/9/13

CHECKED DATE:

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 CAGE CODE: **98524**

ECN NO:
17-0217

ECN DATE:
09/08/17

REV:
AC

SHEET 1 OF 2

APPLICABLE SPECIFICATIONS:

PROCUREMENT SPECIFICATION: MBF2000.
 INSTALLATION AND INSPECTION SPECIFICATION: MBF2003.
 SPECIAL LUBE AND FINISH: MBF2002.
 PART NUMBER ASSIGNMENT: MBF2004.

MATERIAL AND HEAT TREAT:

NUT & SCREW: A286 PER THE CHEMICAL REQUIREMENTS OF AMS5731, AMS5732, AMS5734 AND AMS5737. HEAT TREATED AS REQUIRED FOR PERFORMANCE.
 SLEEVE: 304 STAINLESS STEEL PER AMS5639, HEAT TREATED AS REQUIRED FOR PERFORMANCE.
 INSERT: ACETAL PER ASTM-D6778.
 DRIVE NUT: MILD STEEL.

FINISH:

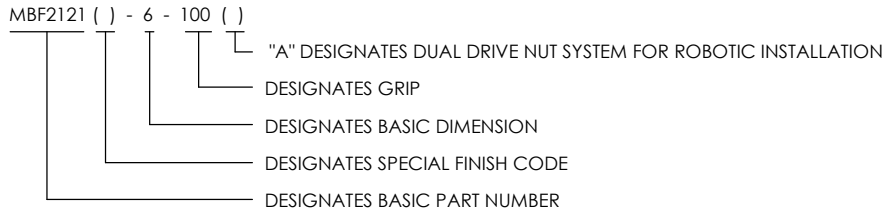
NUT, SCREW & SLEEVE: PASSIVATE PER AMS-QQ-P-35., CONVERSION COATING OPTIONAL.
 INSERT: NONE.
 DRIVE NUT: CORROSION RESISTANT COATING COLOR BLACK.

LUBRICANT:

DRY FILM LUBE PERAS5272 TYPE I OR EVERLUBE #812 PER MIL-L-81329, PARAFFIN WAX, OR CETYL ALCOHOL PER AS87132.

GENERAL NOTES:

1. EXAMPLE OF PART NUMBER:

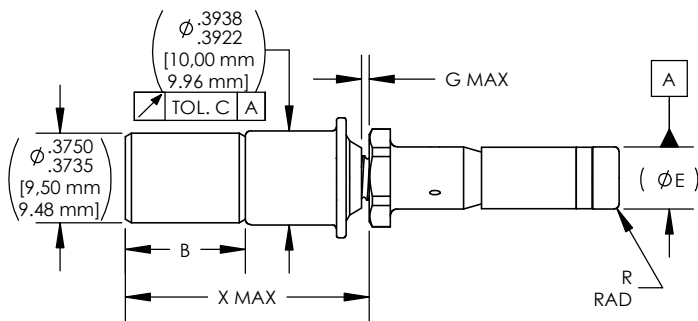


2. LOCKING FEATURE CONSISTS OF THREE (3) INDENTATIONS LOCATED 120 ° APART ON THE PERIPHERY OF THE NUT COMPONENT AND APPROXIMATELY .040" ABOVE INTERSECTION OF THE NUT NOSE ANGLE AND O.D.
 3. HIGH BREAK PARTS DENOTED BY AN "H" IN THE PART NUMBER AS FOLLOWS:



4. ALTERNATE HEAD MARKINGS: "M" AND "2021".
 5. COMPOSI-LOK FASTENERS WITH SELECTED COMBINATIONS OF THE ABOVE LUBRICANTS AND FINISHES ARE SPECIALLY CODED AND MAY BE SUBSTITUTED FOR EQUIVALENT NON-CODED PARTS AT MANUFACTURER'S OPTION. SEE INTERCHANGEABILITY SPECIFICATION MBF2007.
 6. DISTORTION SHALL NOT PREVENT INSERTION OF THE FASTENER INTO A RING GAUGE OF LENGTH EQUAL TO ONE DIAMETER AND HOLE DIAMETER EQUAL TO A MINIMUM RECOMMENDED HOLE. FORCE FOR INSERTION SHALL NOT EXCEED 5.0 POUNDS.
 7. MAXIMUM CONCENTRICITY (T.I.R.) FROM DRIVE NUT TO SCREW HEAD WHEN DRIVE NUT IS FULLY SEATED (G=0) FOR GRIPS UNDER/EQUAL -1000. FOR GRIPS LONGER THAN -1000 "TOL C" TBD.
 8. HALF-GRIP SIZES MAY BE ORDERED BY ADDING (.025) TO THE GRIP DASH NUMBERS.

EXAMPLE: MBF2121-08-525 INDICATES A NOMINAL GRIP LENGTH OF .500. THE GRIP RANGE FOR THESE HALF-GRIP SIZES WILL BE NOMINAL GRIP +.025/-0.025.



ROBOTIC PART NUMBER	R RAD		G MAX (GAP)		B		X MAX		"TOL C" Δ			
									GRIP < -500		GRIP > -500	
	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm
MBF2121()-5-()A	.025 .010	0.635 0.254	.042	1.067	.510 .470	12.954 11.938	1.033	26.238	.030	0.762	.030	0.762
MBF2121()-6-()A	.030 .015	0.762 0.381	.050	1.270	.510 .470	12.954 11.938	1.043	26.492	.027	0.686	.030	0.762
MBF2121()-8-()A	.035 .020	0.889 0.508	.062	1.575	.510 .470	12.954 11.938	1.078	27.381	.022	0.559	.030	0.762

2ND DASH NO. (GRIP)	GRIP RANGE			
	MIN GRIP		MAX GRIP	
	INCH	mm	INCH	mm
100	.050	1.27	.100	2.54
150	.100	2.54	.150	3.81
200	.150	3.81	.200	5.08
250	.200	5.08	.250	6.35
300	.250	6.35	.300	7.62
350	.300	7.62	.350	8.89
400	.350	8.89	.400	10.16
450	.400	10.16	.450	11.43
500	.450	11.43	.500	12.70
550	.500	12.70	.550	13.97
600	.550	13.97	.600	15.24
650	.600	15.24	.650	16.51
700	.650	16.51	.700	17.78
750	.700	17.78	.750	19.05
800	.750	19.05	.800	20.32
850	.800	20.32	.850	21.59
900	.850	21.59	.900	22.86
950	.900	22.86	.950	24.13
1000	.950	24.13	1.000	25.40
1050	1.000	25.40	1.050	26.67
1100	1.050	26.67	1.100	27.94
1150	1.100	27.94	1.150	29.21
1200	1.150	29.21	1.200	30.48
1250	1.200	30.48	1.250	31.75
1300	1.250	31.75	1.300	33.02
1350	1.300	33.02	1.350	34.29
1400	1.350	34.29	1.400	35.56
1450	1.400	35.56	1.450	36.83
1500	1.450	36.83	1.500	38.10
1550	1.500	38.10	1.550	39.37
1600	1.550	39.37	1.600	40.64
1650	1.600	40.64	1.650	41.91
1700	1.650	41.91	1.700	43.18

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