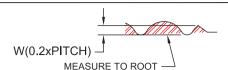
CRITICAL DESIGN INFORMATION

START EVERY DESIGN BY FINDING "Lnom"

IF "Lnom" IS NOT GIVEN ON THE CUSTOMER DRAWING, USE EITHER THE MAXIMUM LENGTH (Mmax) OR MINIMUM FULL THREAD LENGTH (Lf) FROM THE CUSTOMER DRAWING TO CALCULATE IT USING ONE OF THE FOLLOWING EQUATIONS

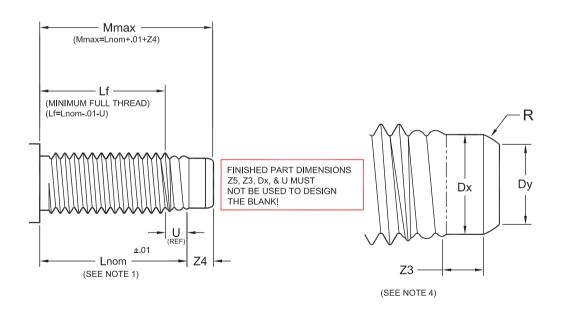
PRFFFRRFD: SECONDARY: Lnom = Mmax-Z4-.01Lnom = Lf+U+.01

Lnom MUST BE ON EVERY PART DRAWING DO NOT CHANGE ANY DIMENSION GIVEN WITHOUT CONSULTING MATHREAD



INSPECTION INFORMATION:

- 1. Lnom ON ROLLED PART IS MEASURED TO THE POINT ON THE LEAD THREAD WHERE IT FIRST REACHES A HEIGHT OF 'W' (0.2xPITCH) WHEN MEASURED FROM THE ROOT OF THE THREAD. (see sketch above)
- 2. MATpoint SHALL HAVE A MINIMUM OF 1.0 COMPLETE TURN OF RADIUSED THREAD. THREAD MUST BE FULLY FORMED, WITH NO UNDER FILL (FLATS, FISSURES) AT PEAK OF THREAD. WHEN VIEWED IN THE DESIGNATED INSPECTION POSITION, THREE COMPLETE RADIUSED THREAD PROFILES MUST BE VISIBLE.
- 3. APPROPRIATE "GO GAGE MUST COMPLETELY PASS OVER MATpoint SECTION OF THREAD WITH MINIMAL DRAG BEFORE PLATING, GAGE MUST HAVE MINOR DIAMETER VERIFIED TO ANSI/ASME B1.2-1983 BEFORE USE.
- 4. "Z3" MUST BE MEASURED TO TANGENT POINT OF 'R', USING MAThread APPROVED RADIUS CHART FROM POINT "W" TO TANGENT



	THREAD SIZE & PITCH	R +.000 005	Dy MAX	W +.0004 0004	Dx	Z ₃	Z ₄	U REF
COARSE THREAD	1/4-20	.105	.160	.0100	.193 .189	.062	.110	.113
	5/16-18	.135	.210	.0111	.249 .245	.089	.160	.125
	3/8-16	.165	.255	.0125	.305 .301	.127	.195	.141
	7/16-14	.185	.300	.0143	.356 .352	.152	.240	.161
	1/2-13	.215	.350	.0154	.413 .409	.182	.275	.173
	9/16-12	.245	.395	.0167	.468 .464	.212	.310	.188
	5/8-11	.275	.440	.0182	.523 .519	.252	.360	.205
	DIMENSIONS ARE IN INCHES (in)							
FINE THREAD	1/4-28	.115	.174	.0071	.208 .204	.062	.123	.080
	5/16-24	.145	.217	.0083	.263 .259	.087	.162	.094
	3/8-24	.175	.272	.0083	.326 .322	.127	.212	.094
	7/16-20	.195	.325	.0100	.379 .375	.152	.241	.113
	1/2-20	.235	.365	.0100	.442 .438	.182	.295	.113
	9/16-18	.255	.414	.0111	.498 .494	.212	.313	.125
	5/8-18	.295	.474	.0111	.561 .557	.252	.381	.125

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