

**DESIGNED & DIMENSIONED
IN MILLIMETERS[INCHES]**

SO-XXXX-XX-XX-XX-X-X

DO NOT
SCALE FROM
THIS PRINT

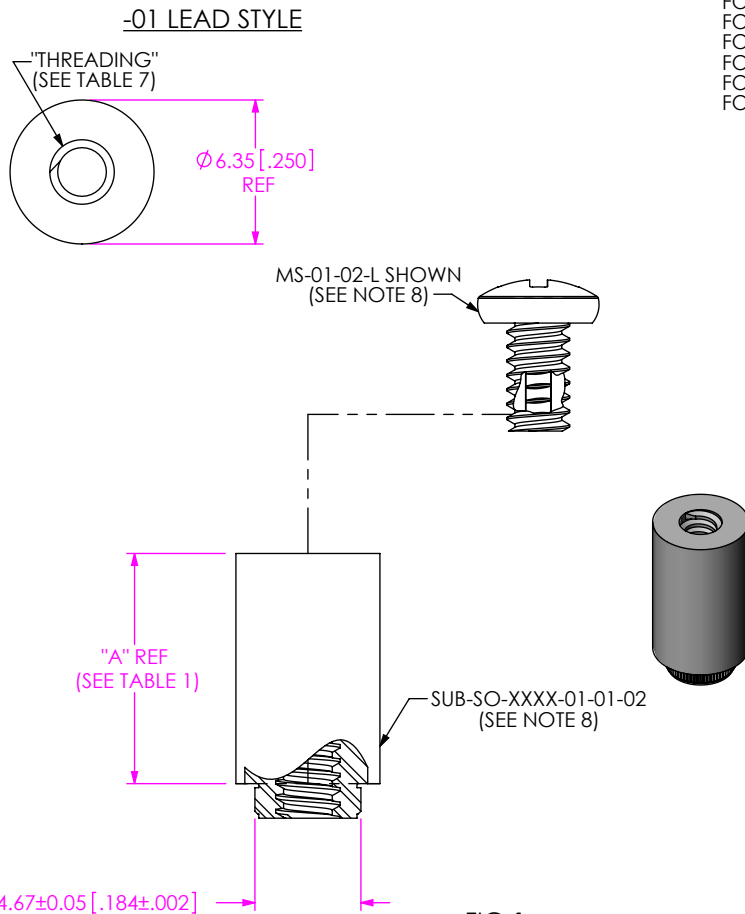


FIG 1
SO-XXXX-01-01-02-L SHOWN

- NOTES:
1. DELETED
 2. DELETED
 3. DELETED
 4. STANDOFFS TO BE USED WITH 1.57[.062]MIN THICK BOARDS THICK BOARDS. THREADED OPTIONS PCB MAX THICKNESS OF 3.16[.124]
 5. NOTE DELETED.
 6. -01 LEAD STYLE ONLY AVAILABLE FOR BOARD STACK HEIGHTS -0515 THRU -0965.
 7. -02 LEAD STYLE ONLY AVAILABLE FOR TOOLED BOARD STACK HEIGHTS, SEE TABLE 3, SHT 2 FOR TOOLED STACKS.
 8. COMPONENTS ARE TO BE PACKAGED IN SEPARATE BAGS UNASSEMBLED AND NOT LABELED. COMBINE SEPARATE BAGS IN ONE LARGER BAG WITH PART NUMBER AND QUANTITY.
 9. -04 LEAD STYLE ONLY AVAILABLE FOR BOARD STACK HEIGHT -0165, -0175, -0310 AND -0318.
 10. -03 LEAD STYLE ONLY AVAILABLE FOR TOOLED BOARD STACK HEIGHTS, SEE TABLE 4, SHT 3. FOR TOOLED HEIGHTS.
 11. NOTE DELETED.
 12. REPRESENTS A CRITICAL DIMENSION.
 13. STANDOFFS ARE DESIGNED .15MM LONGER THAN CONNECTOR STACK HEIGHTS TO ALLOW FOR PROCESSING VARIABLES.
 14. TORQUE TO 2.5 – 3.5 IN*LB'S TO SECURE FASTENER IN A STATIC ENVIRONMENT ASSUMING RECOMMENDED BOARD TO BOARD DISTANCES ARE ACHIEVED WITHOUT DAMAGE TO THE PCB, HARDWARE OR OTHER COMPONENTS.
 15. FOR -L OPTION, SPREAD LOCKING COMPOUND OVER 5 THREADS OR AT LEAST 0.105".

BOARD STACK HEIGHT
 FOR -01: SEE TABLE 1
 FOR -02: SEE TABLE 3, SHEET 2
 FOR -03: SEE TABLE 4, SHEET 3
 FOR -04: SEE TABLE 5, SHEET 4
 FOR -05: SEE TABLE 6, SHEET 5
 FOR -06: SEE TABLE 8, SHEET 6

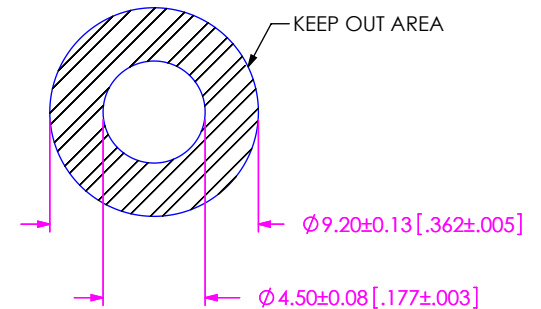
KIT OPTION
 -N: NO HARDWARE
 (STANDOFF ONLY; SEE TABLE 2)
 LEAVE BLANK FOR KIT

LOCKING OPTION
 -L: LOCKING COMPOUND
 (NOT AVAILABLE WITH -04 OR -N OPTION
 ON -01 AND -05 LEAD STYLES)

MATERIAL
 -01: 6061 ALUMINUM
 -02: 303 STAINLESS STEEL
 -03: 304 STAINLESS STEEL
 (AVAILABLE FOR -04 LEAD STYLE ONLY)

THREADING
 -01: #4-40
 -02: M3 x 0.5 x 4.76mm
 -03: M2 x 0.4 x 4.76mm

LEAD STYLE
 -01: FEMALE THREAD/PRESS-IN
 (SEE FIG 1, SHT 1)
 SEE NOTE 6
 -02: MALE/MALE THREADED
 (SEE FIG 2, SHT 2)
 SEE NOTE 7
 -03: MALE/FEMALE THREADED
 (SEE FIG 3, SHT 3)
 SEE NOTE 10
 -04: FEMALE/PRESS-IN
 (SEE FIG 4, SHT 4)
 SEE NOTE 9
 -05: FEMALE/FEMALE THREADED
 (SEE FIG 5 SHT 5)
 -06: MALE/MALE THREADED
 (SEE FIG 6, SHT 6)



RECOMMENDED BOARD
CUTOUT (PRESS-IN)

TABLE 1	
01 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"A"
-0515	5.15 [0.203]
-0575	5.75 [0.226]
-0600	6.00 [0.236]
-0690	6.90 [0.272]
-0715	7.15 [0.281]
-0815	8.15 [0.321]
-0865	8.65 [0.341]
-0915	9.15 [0.360]
-0965	9.65 [0.380]

TABLE 7	
STYLE	THREADING
-01	#4-40 UNC 2A #4-40 UNC 2B
-02	M3 x 0.5 6g M3 x 0.5 6H
-03	M2 x 0.4 6g M2 x 0.4 6H

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS.
TOLERANCES ARE:
DECIMALS ANGLES
X.X: ±0.25 [.01] 2°
X.XX: ±0.05 [.002]

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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 3:1
 SEE PART CALL OUT FOR MATERIAL

DESCRIPTION: BOARD TO BOARD STANDOFF

DWG. NO. SO-XXXX-XX-XX-XX-X

BY: T.NEWTON 12/6/2007 **SHEET 1 OF 7**

"THREADING"
(SEE TABLE 7)

-02 LEAD STYLE

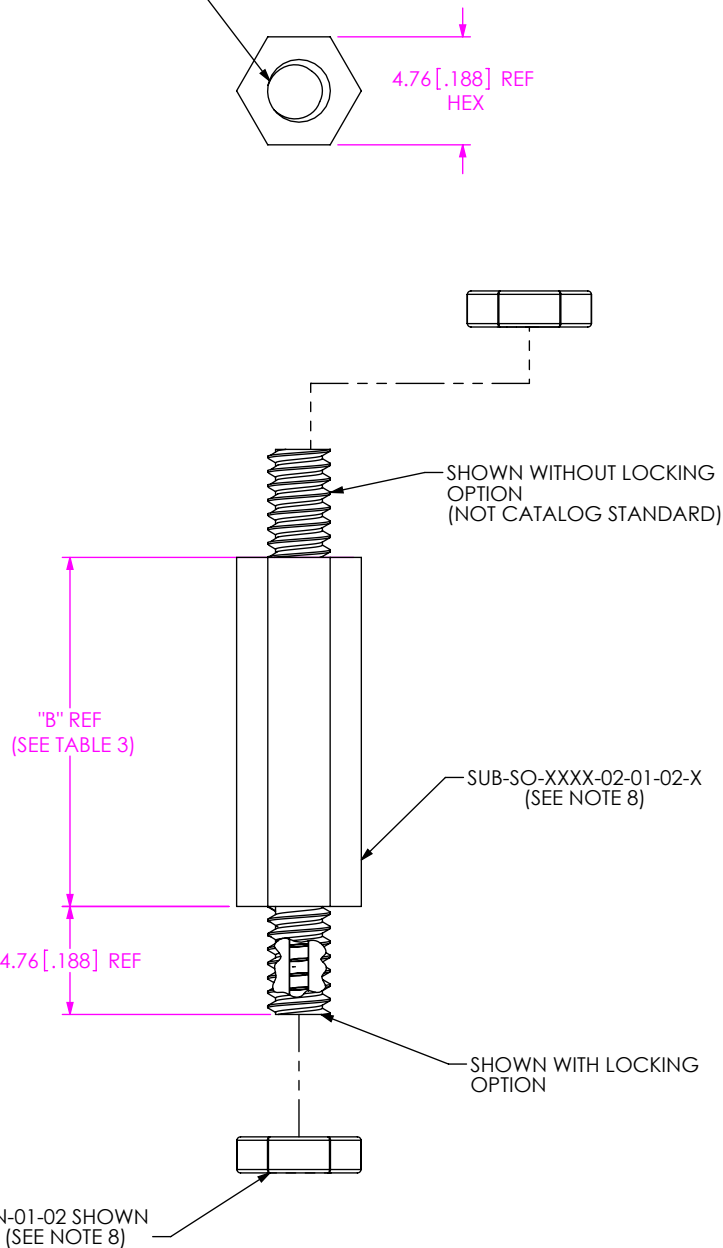


FIG 2
SO-XXXX-02-01-02-X SHOWN

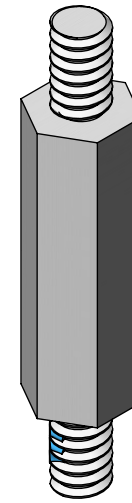
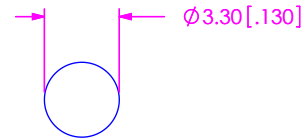


TABLE 3	
02 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"B"
-0515	5.15[.203]
-0715	7.15[.282]
-0865	8.65[.341]
-1015	10.15[.400]
-1115	11.15[.439]
-1215	12.15[.478]
-1315	13.15[.518]
-1415	14.15[.557]
-1515	15.15[.597]
-1524	15.24[.600]
-1615	16.15[.636]
-1715	17.15[.675]
-1890	18.90[.744]
-1915	19.15[.754]
-2015	20.15[.793]
-2215	22.15[.872]
-2515	25.15[.990]
-3015	30.15[1.187]



RECOMMENDED BOARD
CUTOUT (#4-40)

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DESCRIPTION: BOARD TO BOARD STANDOFF

DWG. NO. SO-XXXX-XX-XX-XX-X

SHEET SCALE: 1:0.333333

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-03 LEAD STYLE

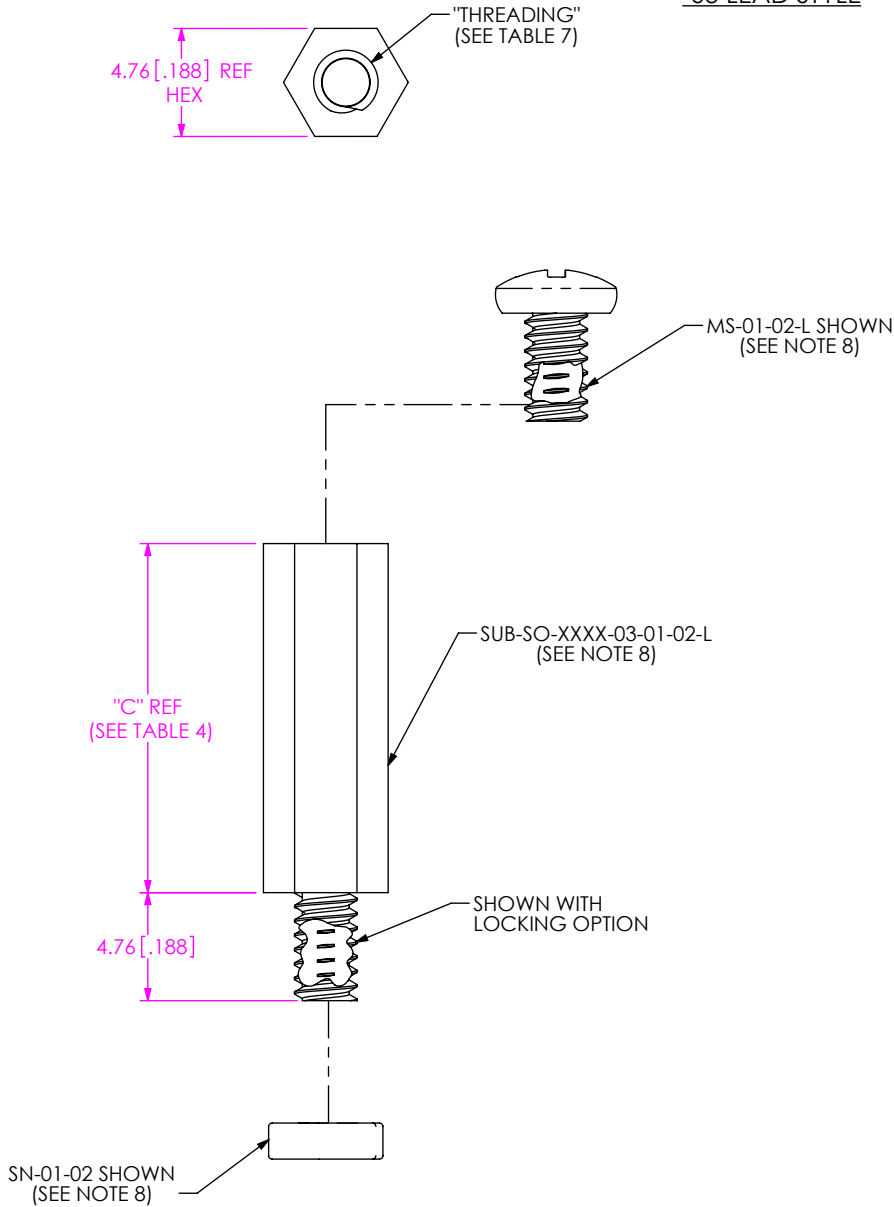
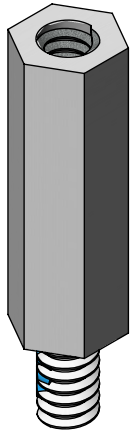


FIG 3
SO-XXXX-03-01-02-X SHOWN
(SAME AS -02 LEAD STYLE,
EXCEPT WHERE STATED)

TABLE 4	
03 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"C"
-0815	8.15[.321]
-0865	8.65[.341]
-0915	9.15[.360]
-0965	9.65[.380]
-1015	10.15[.400]
-1115	11.15[.439]
-1215	12.15[.478]
-1315	13.15[.518]
-1415	14.15[.557]
-1515	15.15[.597]
-1524	15.24[.600]
-1615	16.15[.636]
-1715	17.15[.675]
-1890	18.90[.744]
-1915	19.15[.754]
-2015	20.15[.793]
-2200	22.00[.866]
-2215	22.15[.872]
-2515	25.15[.990]
-3015	30.15[1.187]



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DESCRIPTION: BOARD TO BOARD STANDOFF

DWG. NO. SO-XXXX-XX-XX-XX-X

SHEET SCALE: 3:1

BY: T.NEWTON 12/6/2007 SHEET 3 OF 7

-04 LEAD STYLE

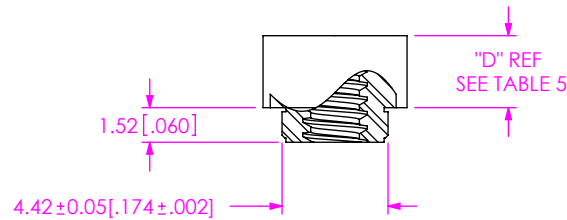
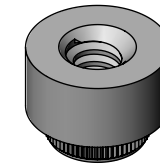
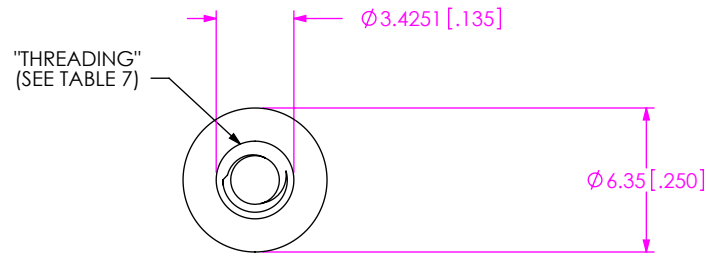
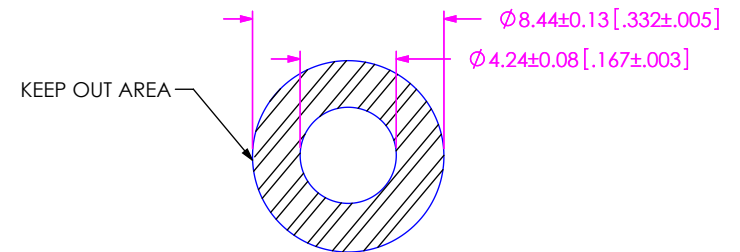



FIG 4
SO-XXXX-04-01-02 SHOWN



RECOMMENDED BOARD
CUTOUT (PRESS-IN)

TABLE 5	
04 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"D"
-0165	1.65 [.065]
-0175	1.75 [.069]
-0310	3.10 [.122]
-0318	3.18 [.125]

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	<p>DO NOT SCALE DRAWING</p>	<p>DESCRIPTION: BOARD TO BOARD STANDOFF</p>
<p>SHEET SCALE: 1:0.333333</p>	<p>DWG. NO. SO-XXXX-XX-XX-XX-X</p>	<p>BY: T.NEWTON 12/6/2007 SHEET 4 OF 7</p>

-05 LEAD STYLE

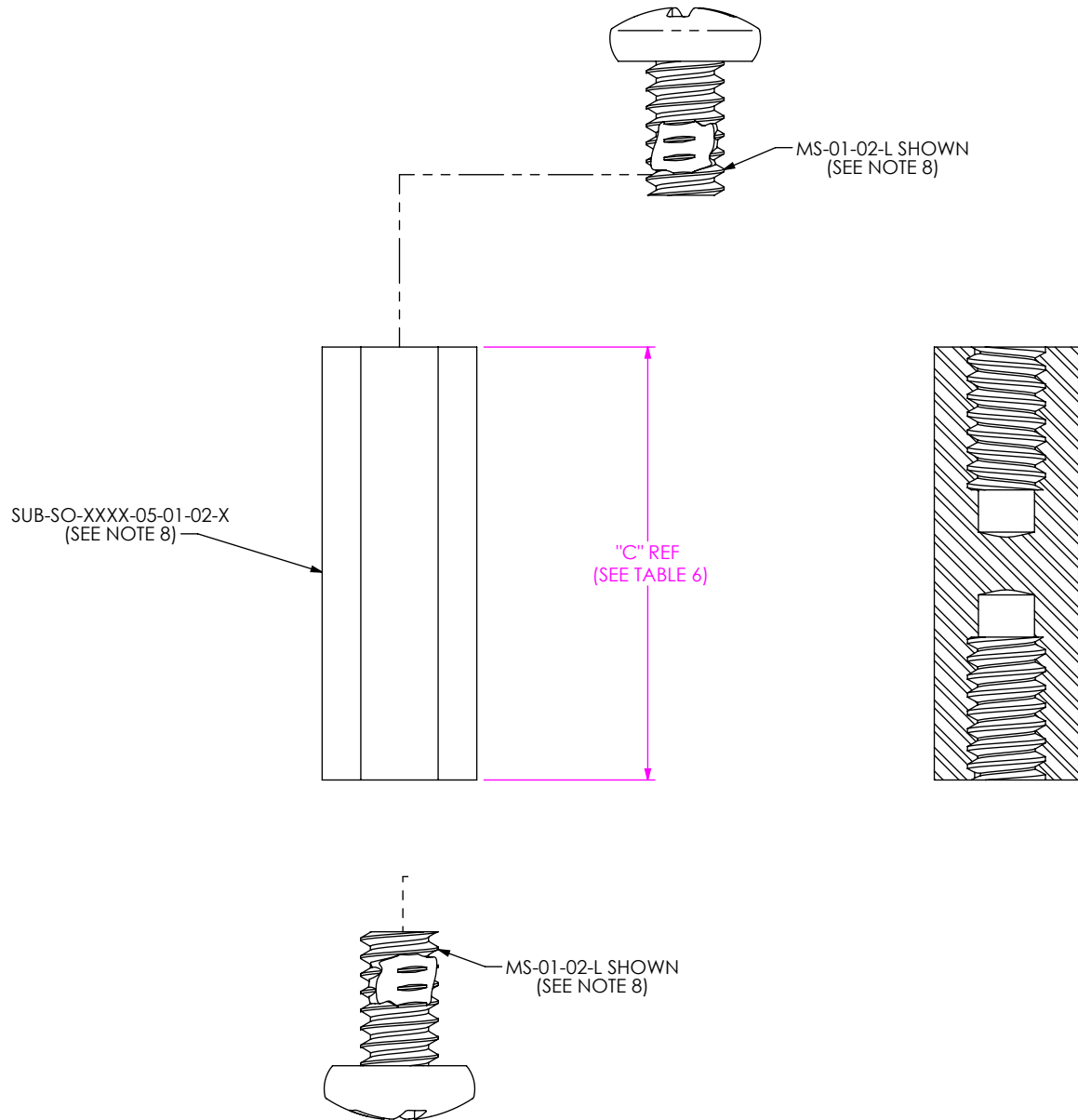
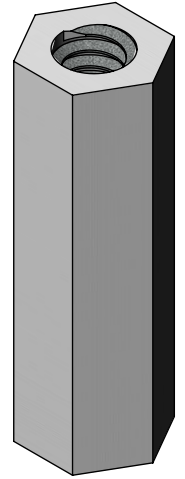


TABLE 6	
05 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"C"
-0515	5.15 [.203]
-0700	7.00 [.276]
-0915	9.15 [.360]
-1015	10.15 [.400]
-1115	11.15 [.439]
-1215	12.15 [.478]
-1315	13.15 [.518]
-1415	14.15 [.557]
-1515	15.15 [.596]
-1524	15.24 [.600]
-1615	16.15 [.636]
-1715	17.15 [.675]
-1890	18.90 [.744]
-1915	19.15 [.754]
-2015	20.15 [.793]
-2200	22.00 [.866]
-2215	22.15 [.872]
-2515	25.15 [.990]

FIG 5
SO-XXXX-05-01-02-X SHOWN
(SAME AS -02 LEAD STYLE,
EXCEPT WHERE STATED)

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DESCRIPTION: BOARD TO BOARD STANDOFF

DWG. NO. SO-XXXX-XX-XX-XX-X

SHEET SCALE: 1:1

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-06 LEAD STYLE

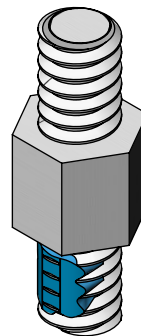
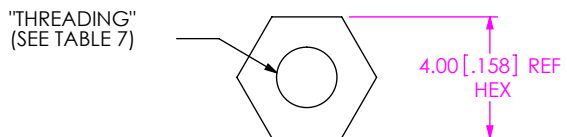
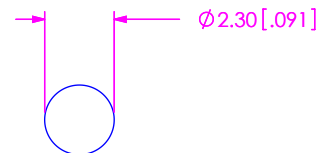
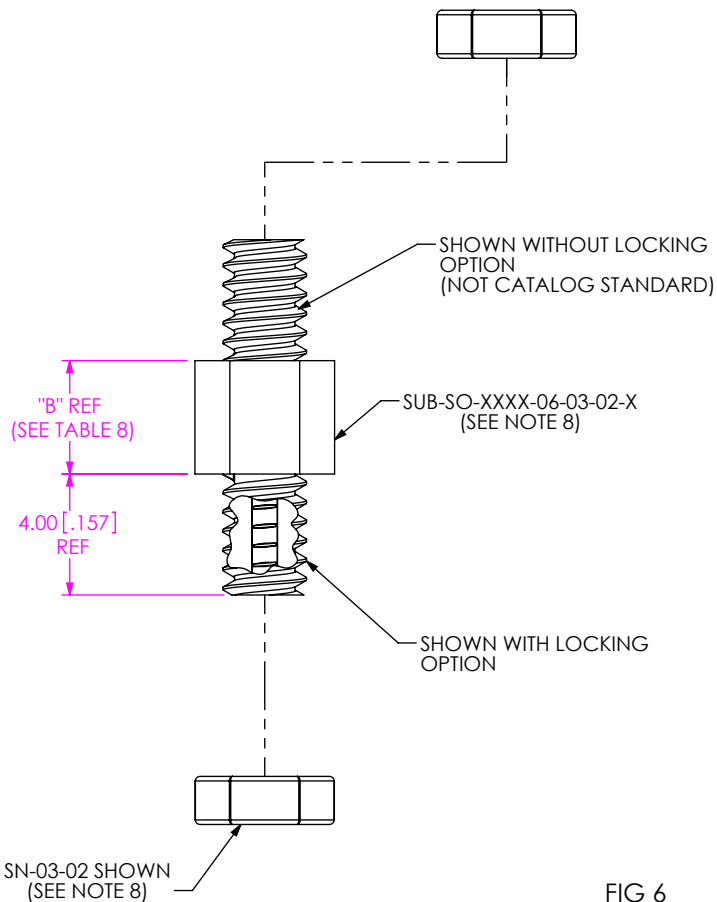


TABLE 8	
06 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"B"
-0375	3.75 [.148]



RECOMMENDED BOARD CUTOUT (M2 x 0.4)

FIG 6
SO-XXXX-06-03-02-X SHOWN
(SAME AS -02 LEAD STYLE,
EXCEPT WHERE STATED)

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DESCRIPTION: BOARD TO BOARD STANDOFF

DWG. NO. SO-XXXX-XX-XX-XX-X

SHEET SCALE: 4:1

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TABLE 2 - BOM						
FINISHED GOOD	STANDOFF	QTY	SCREW	QTY	NUT	QTY
SO-XXXX-01-01-XX	SUB-SO-XXXX-01-01-XX	1	MS-01-XX	1	N/A	
SO-XXXX-01-01-XX-N	SUB-SO-XXXX-01-01-XX	1	N/A		N/A	
SO-XXXX-01-01-XX-L	SUB-SO-XXXX-01-01-XX	1	MS-01-XX-L	1	N/A	
SO-XXXX-02-01-XX	SUB-SO-XXXX-02-01-XX	1	N/A		SN-01-XX	2
SO-XXXX-02-01-XX-N	SUB-SO-XXXX-02-01-XX	1	N/A		N/A	
SO-XXXX-02-01-XX-L	SUB-SO-XXXX-02-01-XX-L	1	N/A		SN-01-XX	2
SO-XXXX-02-01-XX-L-N	SUB-SO-XXXX-02-01-XX-L	1	N/A		N/A	
SO-XXXX-03-01-XX	SUB-SO-XXXX-03-01-XX	1	MS-01-XX	1	SN-01-XX	1
SO-XXXX-03-01-XX-N	SUB-SO-XXXX-03-01-XX	1	N/A		N/A	
SO-XXXX-03-01-XX-L	SUB-SO-XXXX-03-01-XX-L	1	MS-01-XX-L	1	SN-01-XX	1
SO-XXXX-03-01-XX-L-N	SUB-SO-XXXX-03-01-XX-L	1	N/A		N/A	
SO-XXXX-05-01-XX	SUB-SO-XXXX-05-01-XX	1	MS-01-XX	2	N/A	
SO-XXXX-05-01-XX-N	SUB-SO-XXXX-05-01-XX	1	N/A		N/A	
SO-XXX-05-01-XX-L	SUB-SO-XXX-05-01-XX	1	MS-01-XX-L	2	N/A	
SO-XXXX-01-02-XX	SUB-SO-XXXX-01-02-XX	1	MS-02-XX	1	N/A	
SO-XXXX-01-02-XX-N	SUB-SO-XXXX-01-02-XX	1	N/A		N/A	
SO-XXXX-01-02-XX-L	SUB-SO-XXXX-01-02-XX	1	MS-02-XX-L	1	N/A	
SO-XXXX-02-02-XX	SUB-SO-XXXX-02-02-XX	1	N/A		SN-02-XX	2
SO-XXXX-02-02-XX-N	SUB-SO-XXXX-02-02-XX	1	N/A		N/A	
SO-XXXX-02-02-XX-L	SUB-SO-XXXX-02-02-XX-L	1	N/A		SN-02-XX	2
SO-XXXX-02-02-XX-L-N	SUB-SO-XXXX-02-02-XX-L	1	N/A		N/A	
SO-XXXX-02-03-XX-L	SUB-SO-XXXX-02-03-XX-L	1	N/A		SN-03-XX	2
SO-XXXX-03-02-XX	SUB-SO-XXXX-03-02-XX	1	MS-02-XX	1	SN-02-XX	1
SO-XXXX-03-02-XX-N	SUB-SO-XXXX-03-02-XX	1	N/A		N/A	
SO-XXXX-03-02-XX-L	SUB-SO-XXXX-03-02-XX-L	1	MS-02-XX-L	1	SN-02-XX	1
SO-XXXX-03-02-XX-L-N	SUB-SO-XXXX-03-02-XX-L	1	N/A		N/A	
SO-XXXX-03-03-XX	SUB-SO-XXXX-03-03-XX	1	MS-06-XX	1	SN-03-XX	1
SO-XXXX-03-03-XX-N	SUB-SO-XXXX-03-03-XX	1	N/A		N/A	
SO-XXXX-03-03-XX-L	SUB-SO-XXXX-03-03-XX-L	1	MS-06-XX-L	1	SN-03-XX	1
SO-XXXX-03-03-XX-L-N	SUB-SO-XXXX-03-03-XX-L	1	N/A		N/A	
SO-XXXX-05-02-XX	SUB-SO-XXXX-05-02-XX	1	MS-02-XX	2	N/A	
SO-XXXX-05-02-XX-N	SUB-SO-XXXX-05-02-XX	1	N/A		N/A	
SO-XXX-05-02-XX-L	SUB-SO-XXX-05-02-XX	1	MS-02-XX-L	2	N/A	
SO-XXX-05-03-XX	SUB-SO-XXX-05-03-XX	1	MS-06-XX	2	N/A	
SO-XXX-05-03-XX-L	SUB-SO-XXX-05-03-XX	1	MS-06-XX-L	2	N/A	
SO-XXXX-01-03-XX	SUB-SO-XXXX-01-03-XX	1	MS-06-XX	1	N/A	

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DO NOT SCALE DRAWING

DESCRIPTION:
 BOARD TO BOARD STANDOFF

DWG. NO.
SO-XXXX-XX-XX-XX-X

BY: T.NEWTON 12/6/2007 SHEET 7 OF 7

SHEET SCALE: 4:1