

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

-01 LEAD STYLE

BOARD STACK HEIGHT
 -0165,-0175,-0310,-0318,-0515,-0690,
 -0715,-0815,-0865,-0915,-0965,-1015,
 -1115,-1215,-1315,-1415,-1515,-1524,
 -1615,-1715,-1890,-1915,-2015,-2200,
 -2215,-2515,-3015

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)

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

THREADING

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

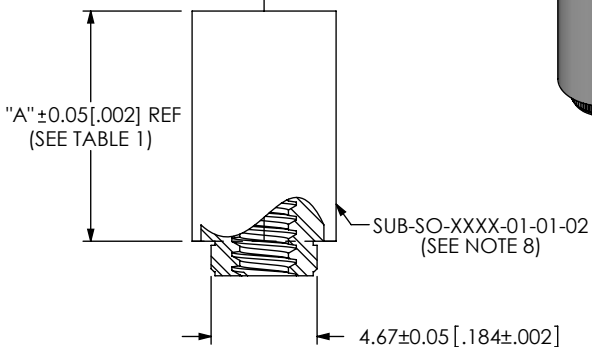
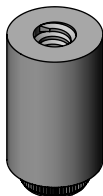
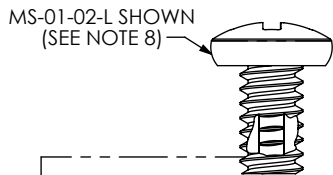
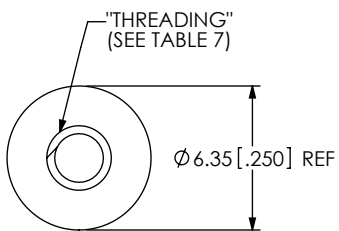


FIG 1
SO-XXXX-01-01-02-L SHOWN

- NOTES:
1. DELETED
 2. DELETED
 3. DELETED
 4. STANDOFFS TO BE USED WITH 1.57[.062]MIN THICK BOARDS.
 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*lbs 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".

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

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]

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

**RECOMMENDED BOARD
CUTOUT (PRESS-IN)**

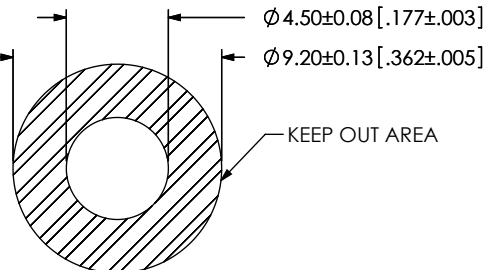


TABLE 2 - BOM

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-XXXX-05-01-XX-L	SUB-SO-XXXX-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-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	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-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-XXXX-05-02-XX-L	SUB-SO-XXXX-05-02-XX	1	MS-02-XX-L	2	N/A	
SO-XXXX-05-03-XX	SUB-SO-XXXX-05-03-XX	1	MS-06-XX	2	N/A	
SO-XXXX-05-03-XX-L	SUB-SO-XXXX-05-03-XX	1	MS-06-XX-L	2	N/A	

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

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520 PARK EAST BLVD. NEW ALBANY, IN 47150
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 e-Mail: info@SAMTEC.com code 55322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 1:0.333333
 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 6

"THREADING"
(SEE TABLE 7)

-02 LEAD STYLE

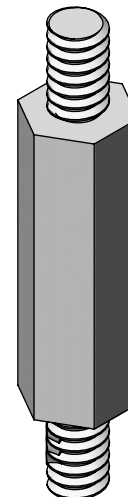
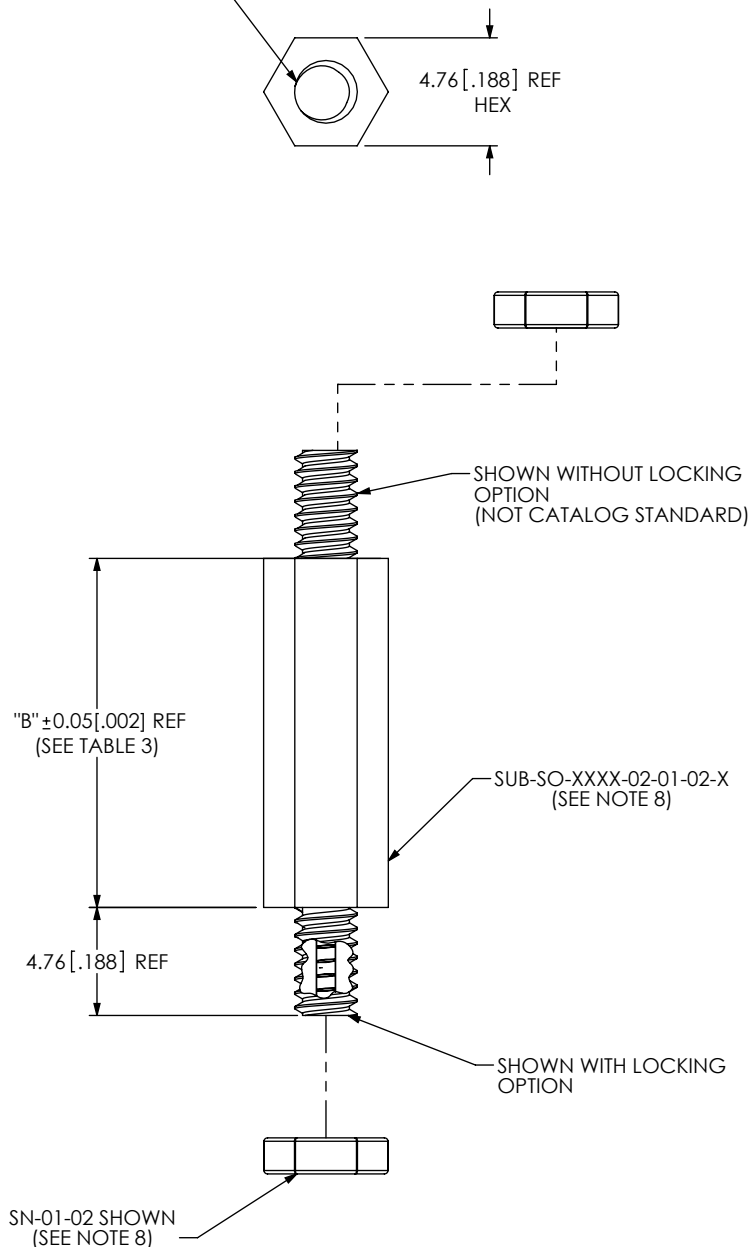
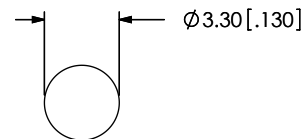


TABLE 3	
02 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"B"
-0515	5.15 [.203]
-0715	7.15 [.282]
-0865	8.65 [.341]
-1015	10.15 [.400]
-1115	11.15 [.439]
-1215	12.15 [.478]
-1315	13.15 [.518]
-1415	14.15 [.557]
-1515	15.15 [.597]
-1524	15.24 [.600]
-1615	16.15 [.636]
-1715	17.15 [.675]
-1890	18.90 [.744]
-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)

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

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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 2 OF 6</p>

-03 LEAD STYLE

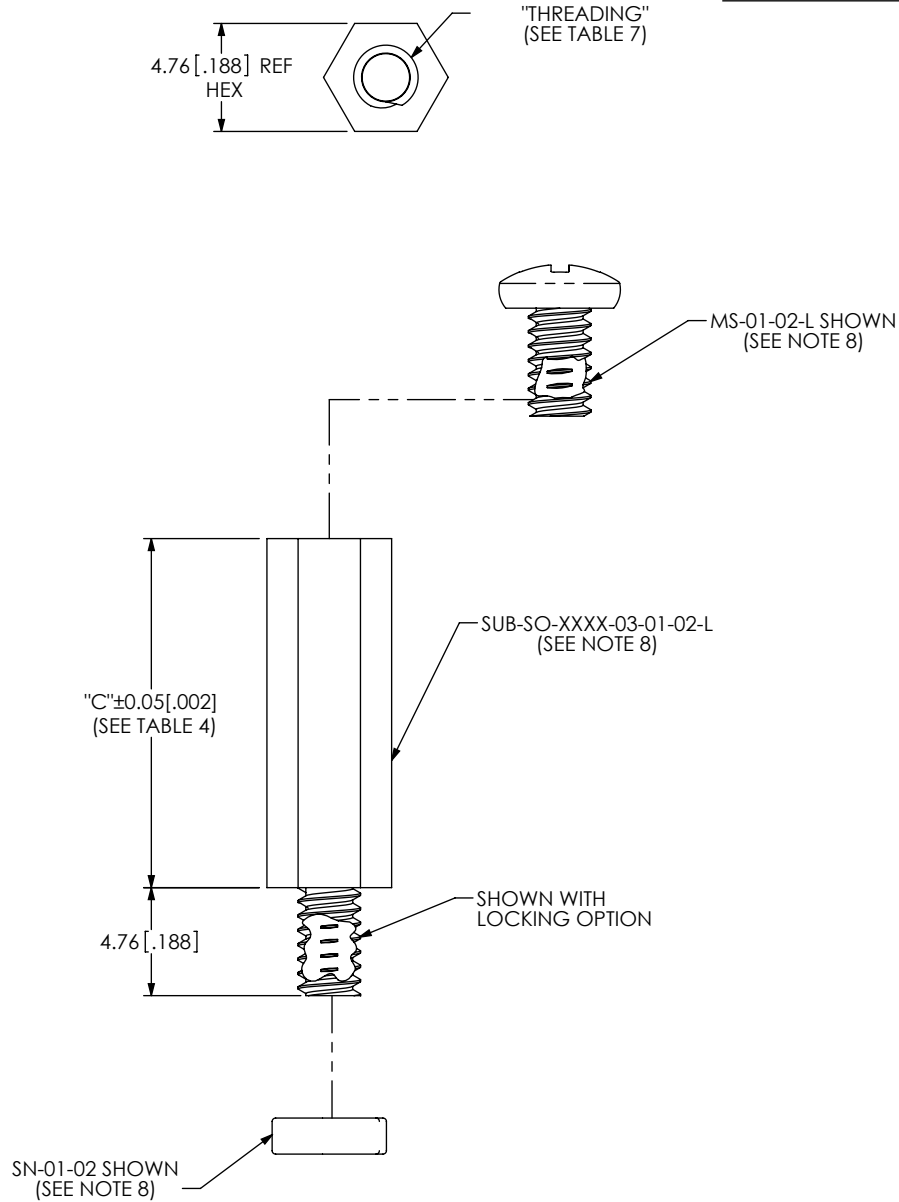
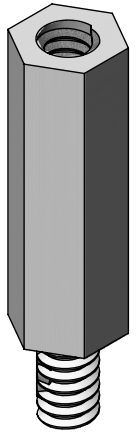


FIG 3
SO-XXXX-03-01-02-X SHOWN
(SAME AS -02 LEAD STYLE,
EXCEPT WHERE STATED)

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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DO NOT SCALE DRAWING

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 6

-04 LEAD STYLE

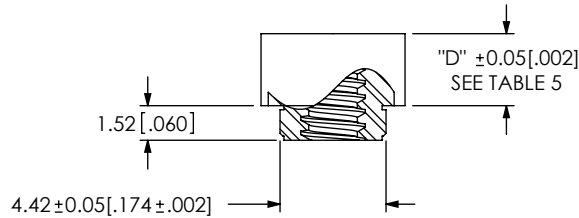
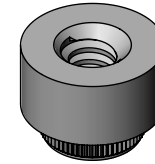
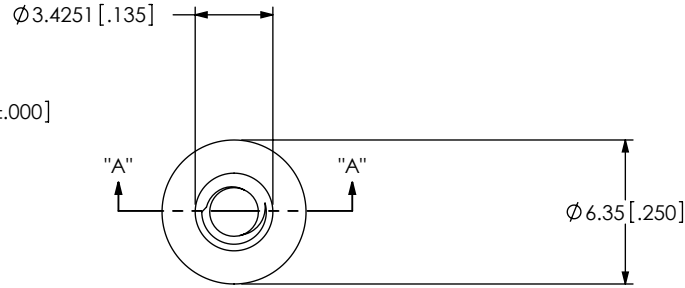
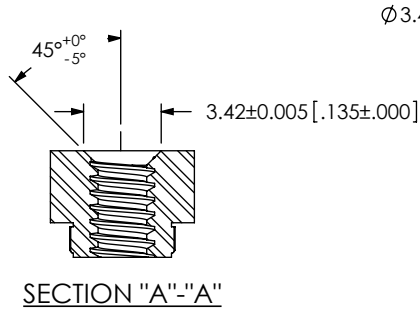
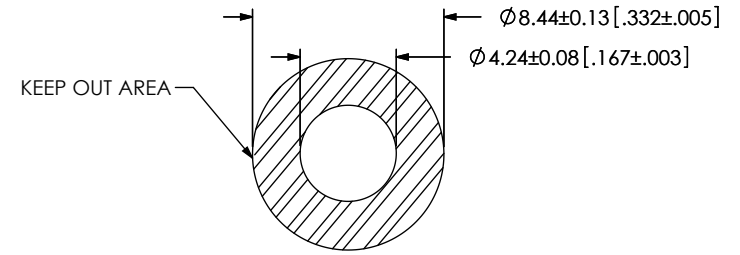


FIG 4
SO-XXXX-04-01-02 SHOWN



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 6</p>

-05 LEAD STYLE

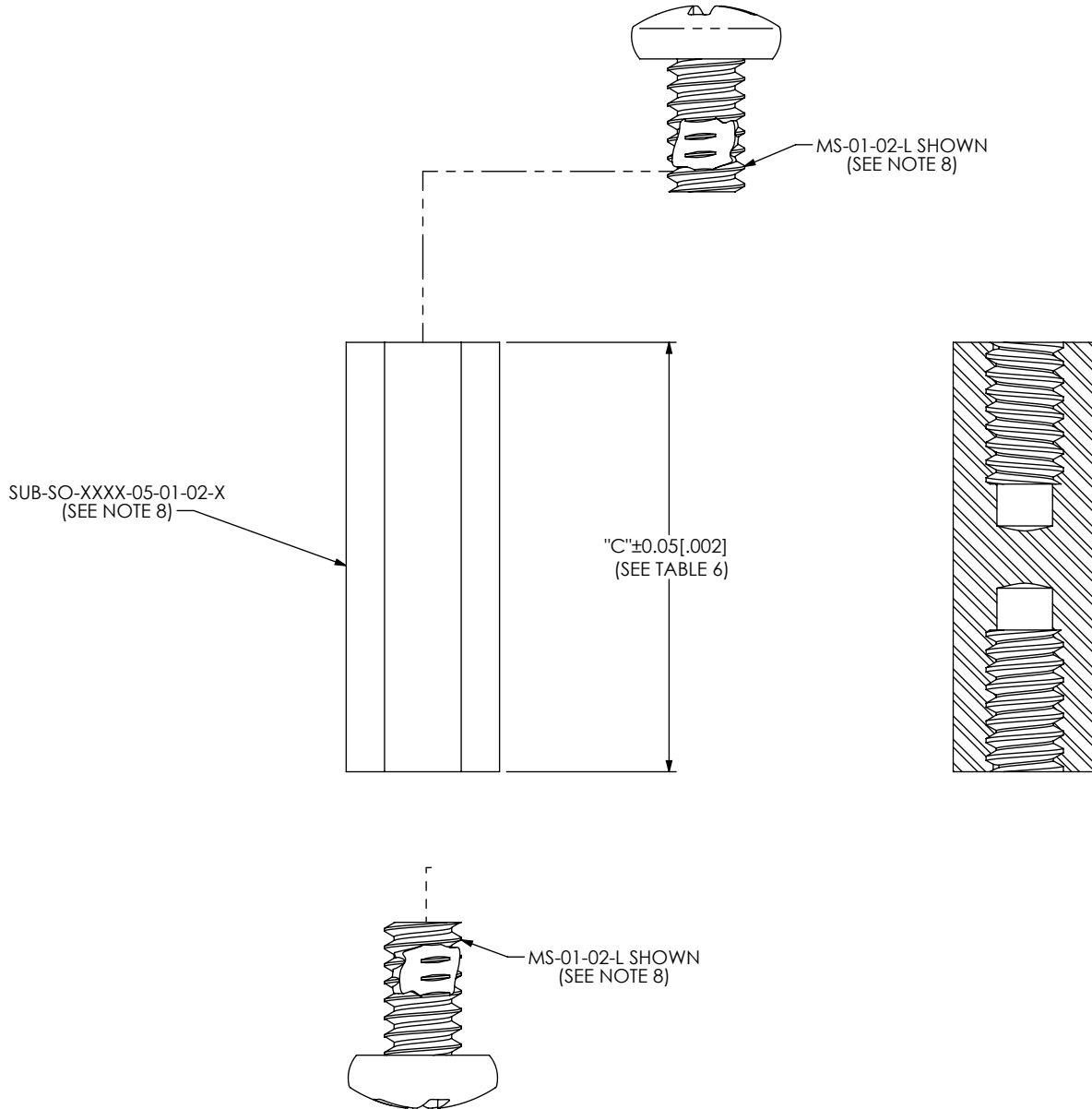
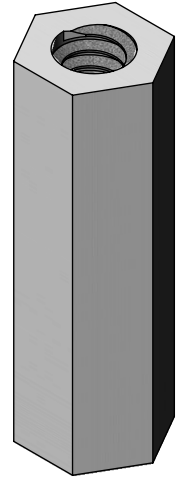


TABLE 6	
05 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"C"
-0515	5.15[.002]
-0915	9.15[.004]
-1015	10.15[.400]
-1115	11.15[.440]
-1215	12.15[.492]
-1315	13.15[.518]
-1415	14.15[.557]
-1515	15.15[.597]
-1524	15.24[.600]
-1615	16.15[.636]
-1715	17.15[.675]
-1890	18.90[.744]
-1915	19.15[.754]
-2015	20.15[.793]
-2200	22.00[.866]
-2215	22.15[.872]
-2515	25.15[.990]

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

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	DO NOT SCALE DRAWING	DESCRIPTION: BOARD TO BOARD STANDOFF
	SHEET SCALE: 1:1	DWG. NO. SO-XXXX-XX-XX-XX-X
		BY: T.NEWTON 12/6/2007 SHEET 5 OF 6

-06 LEAD STYLE

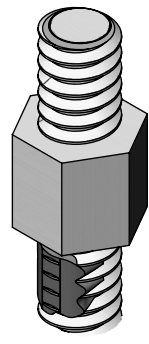
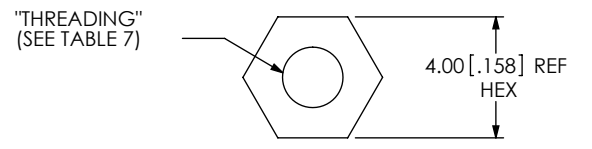
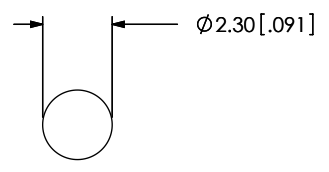
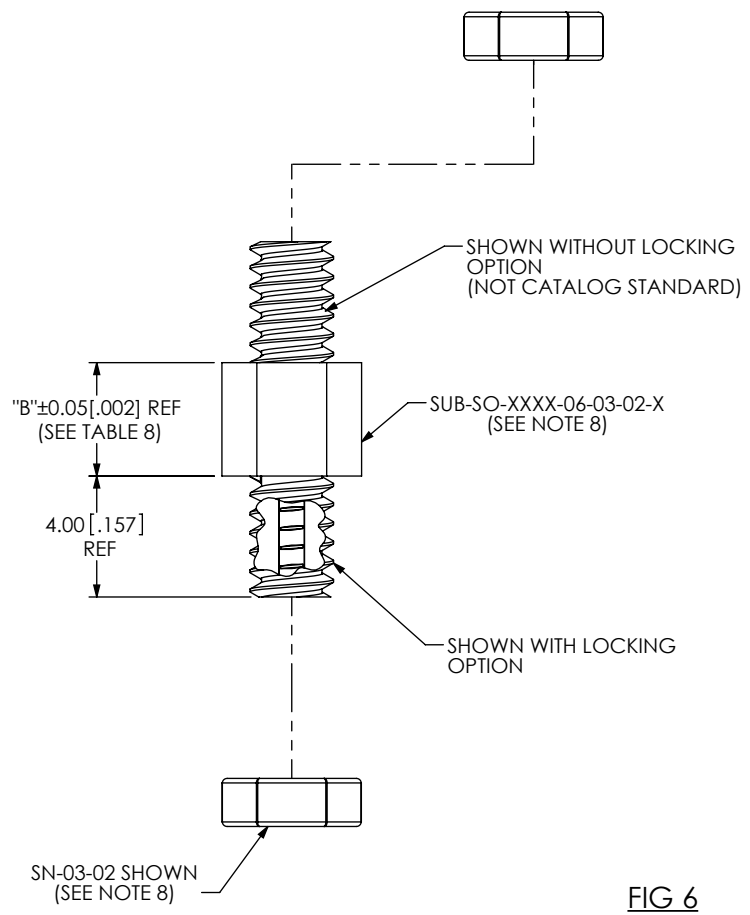


TABLE 8	
06 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"B"
-0375	3.75 [.148]



RECOMMENDED BOARD CUTOUT (M2 x 0.4)

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