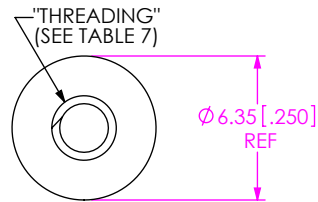


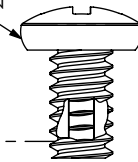
**DESIGNED & DIMENSIONED  
IN MILLIMETERS[INCHES]**

**DO NOT  
SCALE FROM  
THIS PRINT**

### -01 LEAD STYLE



MS-01-02-L SHOWN  
(SEE NOTE 8)



"A" REF  
(SEE TABLE 1)

SUB-SO-XXXX-01-01-02  
(SEE NOTE 8)

4.67±0.05 [.184±.002]

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

#### NOTES:

1. NOTE DELETED
2. NOTE DELETED
3. NOTE 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. NOTE DELETED
7. NOTE DELETED.
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. NOTE DELETED
10. NOTE DELETED
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".

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

#### BOARD STACK HEIGHT

FOR -01 LEAD STYLE: SEE TABLE 1  
FOR -02 LEAD STYLE: SEE TABLE 3, SHEET 2  
FOR -03 LEAD STYLE: SEE TABLE 4, SHEET 3  
FOR -04 LEAD STYLE: SEE TABLE 5, SHEET 4  
FOR -05 LEAD STYLE: SEE TABLE 6, SHEET 5  
FOR -06 LEAD STYLE: 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 LEAD STYLE OR -N OPTION  
ON -01 AND -05 LEAD STYLES)

#### MATERIAL

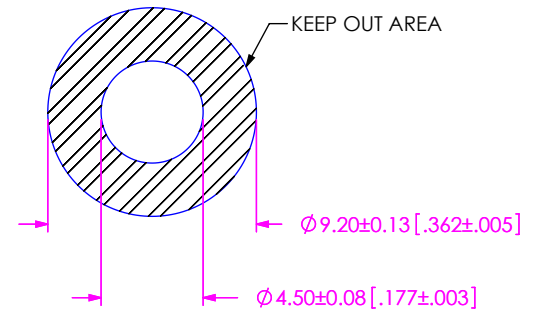
-01: 6061 ALUMINUM  
-02: 303 STAINLESS STEEL  
-03: 304 STAINLESS STEEL  
(AVAILABLE FOR -04 LEAD STYLE ONLY)

#### 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	
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]  
X.XX: ±0.05 [.002]

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

**samtec**

520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

**DESCRIPTION:**  
BOARD TO BOARD STANDOFF

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

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

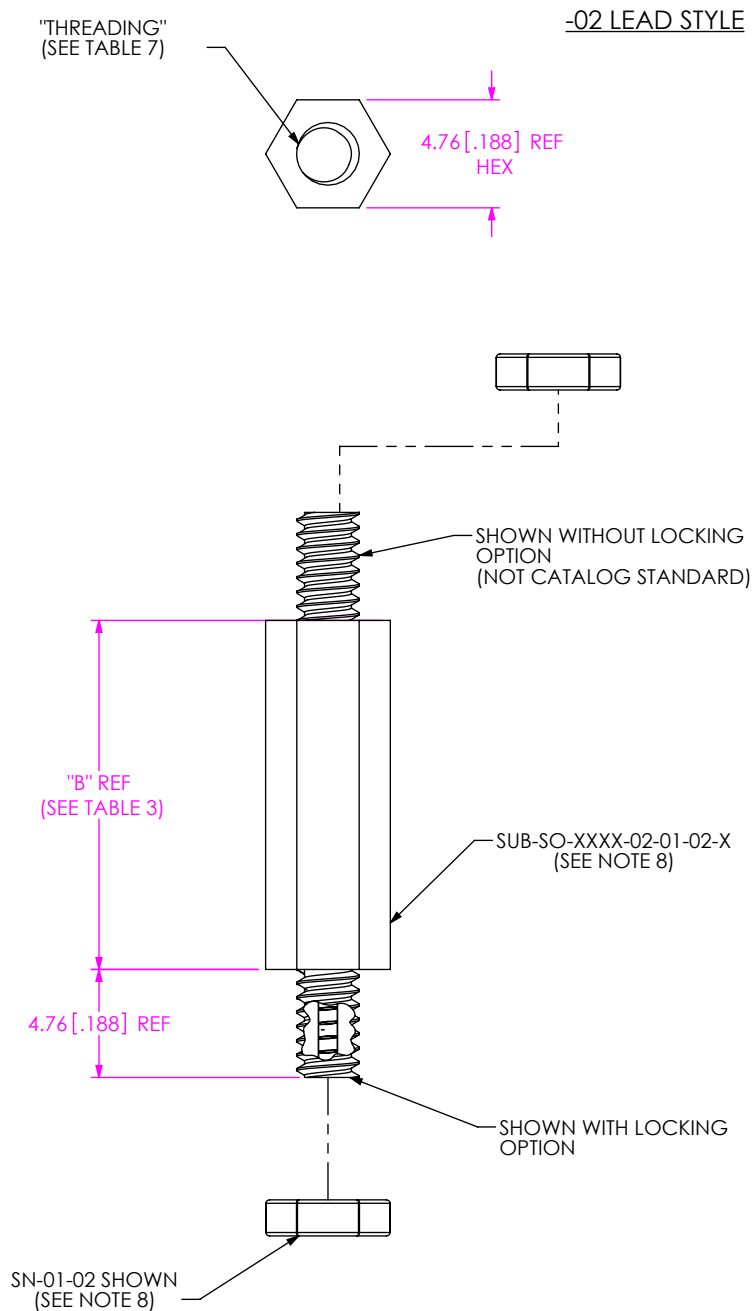


FIG 2  
SO-XXXX-02-01-02-X SHOWN

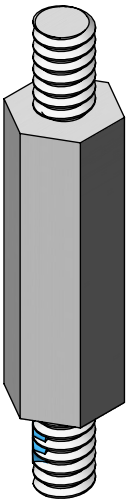
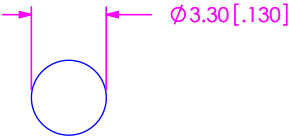


TABLE 3	
02 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"B"
-0515	5.15[.203]
-0715	7.15[.282]
-0865	8.65[.341]
-1015	10.15[.400]
-1115	11.15[.439]
-1215	12.15[.478]
-1315	13.15[.518]
-1415	14.15[.557]
-1515	15.15[.597]
-1524	15.24[.600]
-1615	16.15[.636]
-1715	17.15[.675]
-1890	18.90[.744]
-1915	19.15[.754]
-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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DO NOT SCALE DRAWING	DESCRIPTION: BOARD TO BOARD STANDOFF
SHEET SCALE: 1:0.333333	DWG. NO. SO-XXXX-XX-XX-XX-X
BY: T.NEWTON 12/6/2007	SHEET 2 OF 7

520 PARK EAST BLVD, NEW ALBANY, IN 47150  
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-03 LEAD STYLE

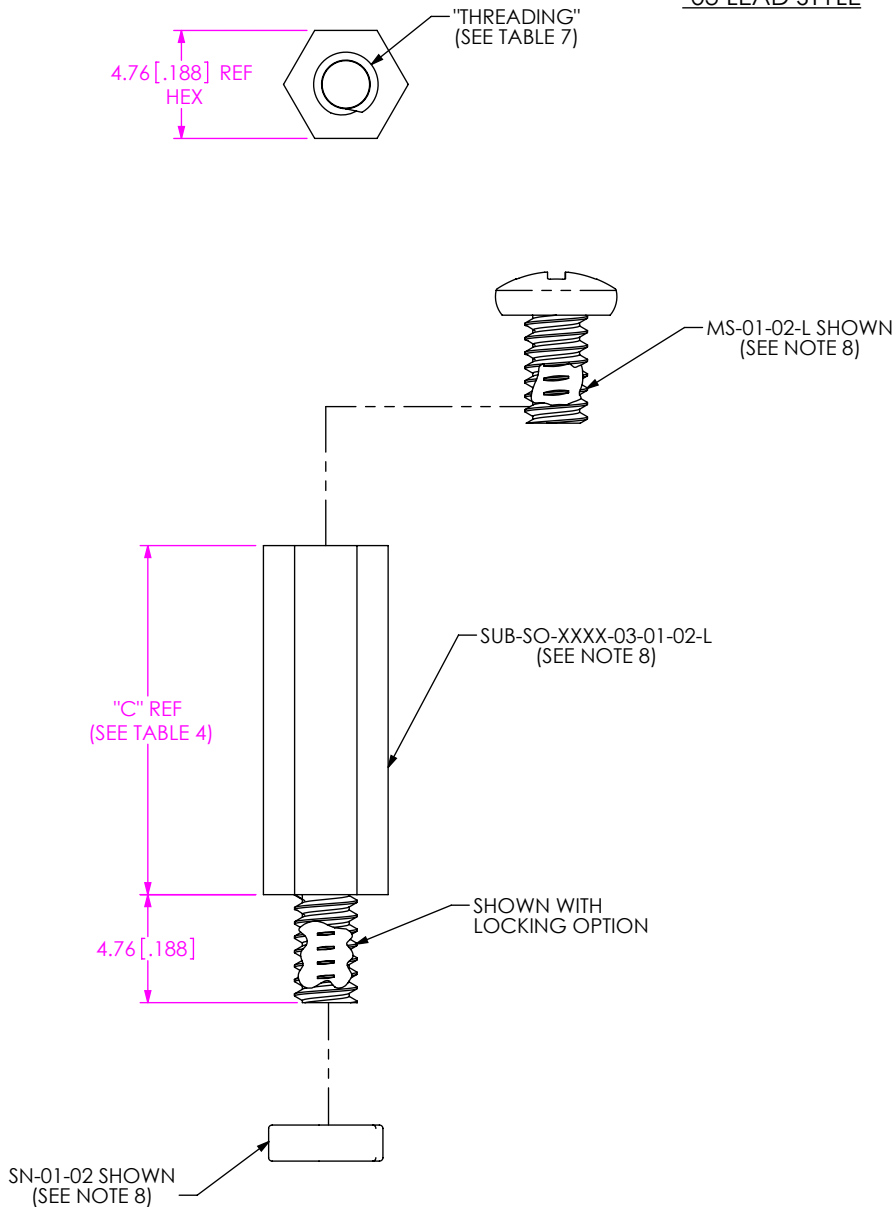
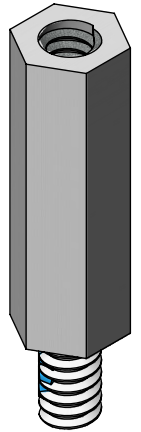


FIG 3  
SO-XXXX-03-01-02-X SHOWN  
(SAME AS -02 LEAD STYLE,  
EXCEPT WHERE STATED)

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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	<p>DWG. NO. SO-XXXX-XX-XX-XX-X</p>
	<p>BY: T.NEWTON 12/6/2007 SHEET 3 OF 7</p>

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-04 LEAD STYLE

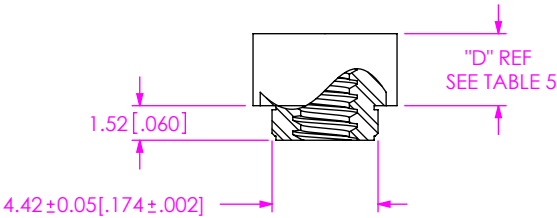
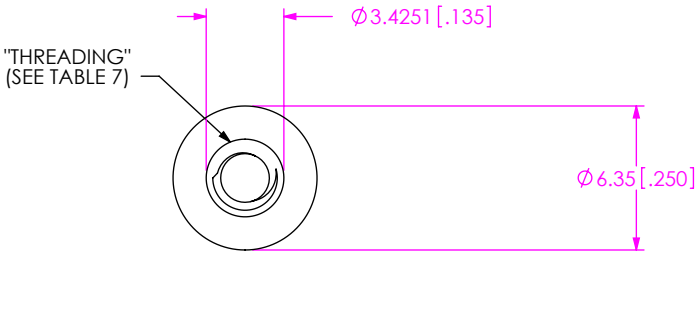


FIG 4  
SO-XXXX-04-01-02 SHOWN

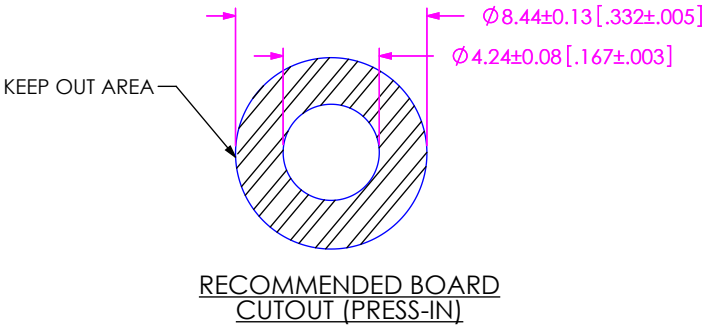



TABLE 5	
04 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"D"
-0165	1.65[ .065]
-0175	1.75[ .069]
-0310	3.10[ .122]
-0318	3.18[ .125]

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SHEET SCALE: 1:0.333333		DWG. NO. SO-XXXX-XX-XX-XX-X	
BY: T.NEWTON 12/6/2007		SHEET 4 OF 7	

-05 LEAD STYLE

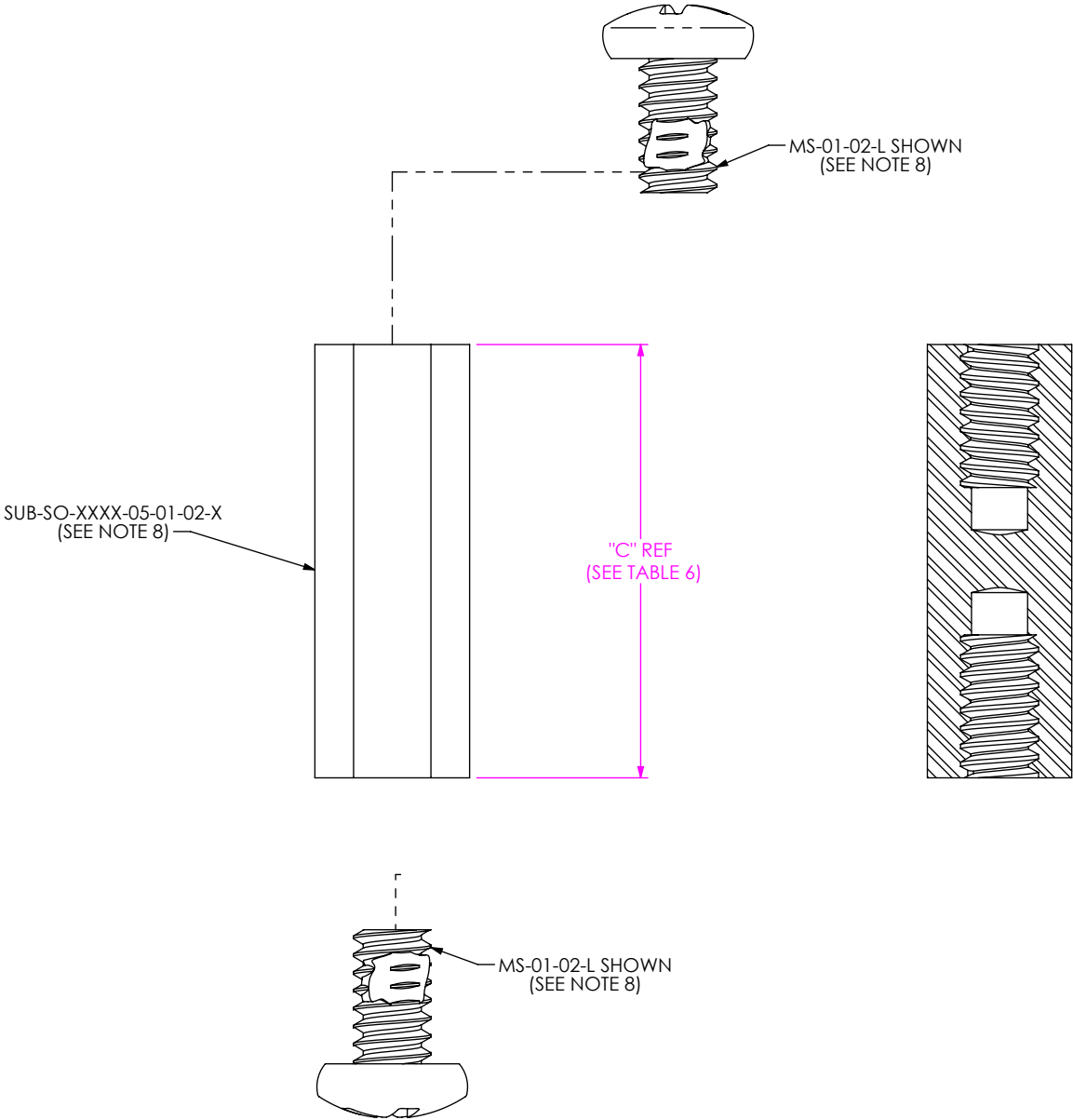
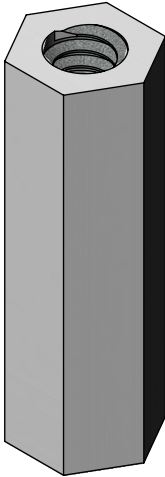


TABLE 6	
05 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"C"
-0515	5.15 [.203]
-0700	7.00 [.276]
-0915	9.15 [.360]
-1015	10.15 [.400]
-1115	11.15 [.439]
-1215	12.15 [.478]
-1315	13.15 [.518]
-1415	14.15 [.557]
-1515	15.15 [.596]
-1524	15.24 [.600]
-1615	16.15 [.636]
-1715	17.15 [.675]
-1890	18.90 [.744]
-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

BY: T.NEWTON 12/6/2007 SHEET 5 OF 7

-06 LEAD STYLE

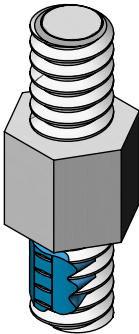
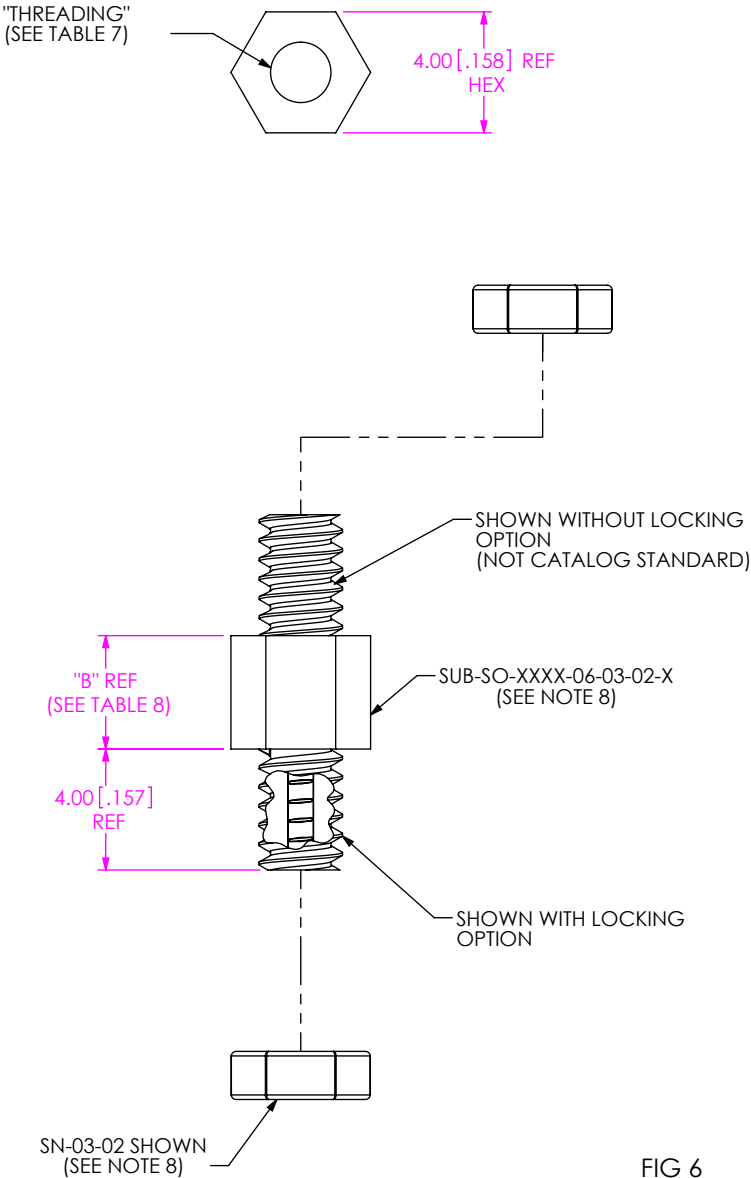
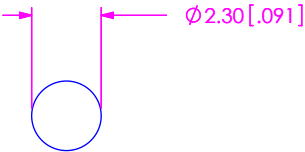


TABLE 8	
06 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"B"
-0375	3.75 [.148]



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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	DWG. NO. SO-XXXX-XX-XX-XX-X
SHEET SCALE: 4:1	BY: T.NEWTON 12/6/2007 SHEET 6 OF 7

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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PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:  
BOARD TO BOARD STANDOFF

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

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

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Authorized Distributor

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[SO-1615-05-01-02-N](#) [SO-1015-05-02-02-N](#) [SO-0375-06-02-02-N](#) [SO-2215-05-03-02](#) [SO-1524-05-02-02](#) [SO-2200-](#)  
[05-03-01](#) [SO-1215-05-02-02-N](#) [SO-0165-04-03-02](#)