

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

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THIS PRINT

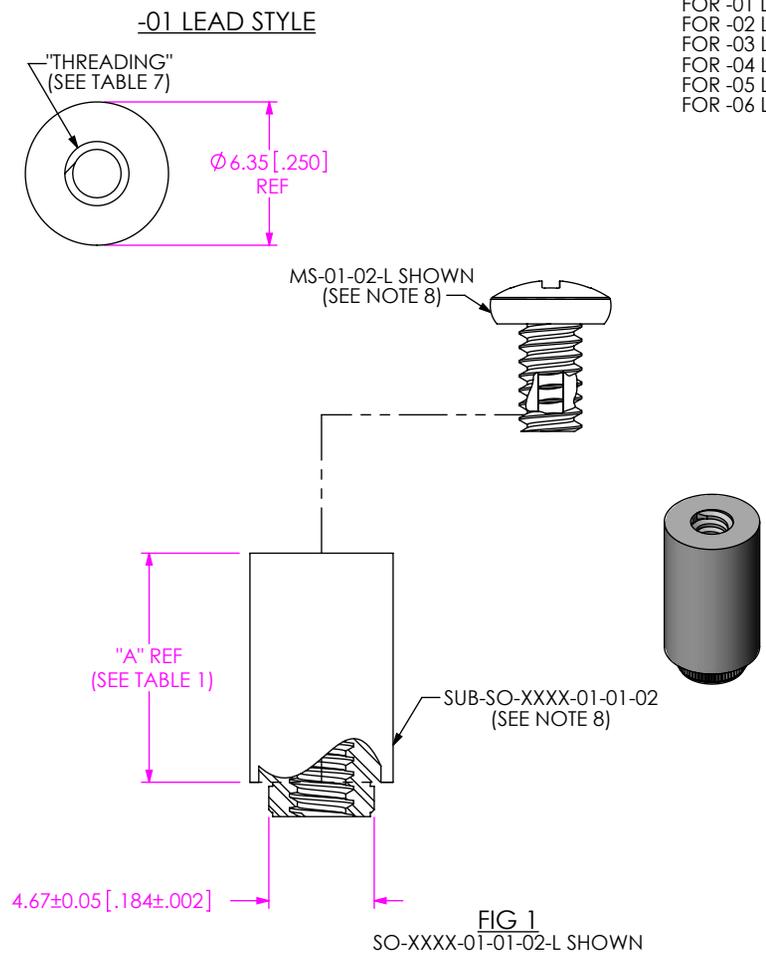


FIG 1  
SO-XXXX-01-01-02-L SHOWN

- NOTES:
- NOTE DELETED
  - NOTE DELETED
  - NOTE DELETED
  - STANDOFFS TO BE USED WITH 1.57[.062]MIN THICK BOARDS THICK BOARDS. THREADED OPTIONS PCB MAX THICKNESS OF 3.16[.124]
  - NOTE DELETED.
  - NOTE DELETED
  - NOTE DELETED.
  - COMPONENTS ARE TO BE PACKAGED IN SEPARATE BAGS UNASSEMBLED AND NOT LABELED. COMBINE SEPARATE BAGS IN ONE LARGER BAG WITH PART NUMBER AND QUANTITY.
  - NOTE DELETED
  - NOTE DELETED
  - NOTE DELETED.
  - REPRESENTS A CRITICAL DIMENSION.
  - STANDOFFS ARE DESIGNED .15MM LONGER THAN CONNECTOR STACK HEIGHTS TO ALLOW FOR PROCESSING VARIABLES.
  - 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.
  - FOR -L OPTION, SPREAD LOCKING COMPOUND OVER 5 THREADS OR AT LEAST 0.105".

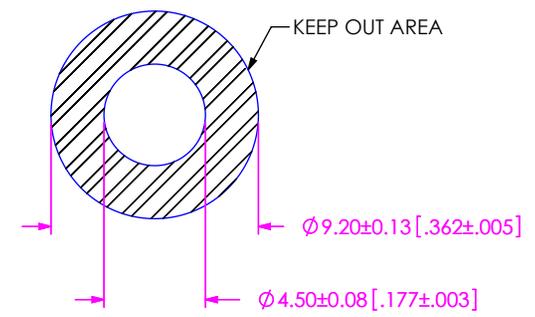
SO-XXXX-XX-XX-XX-X-X

**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)

**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)

**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



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]	<b>PROPRIETARY NOTE</b> * THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.	520 PARK EAST BLVD. NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail info@SAMTEC.com code 55322

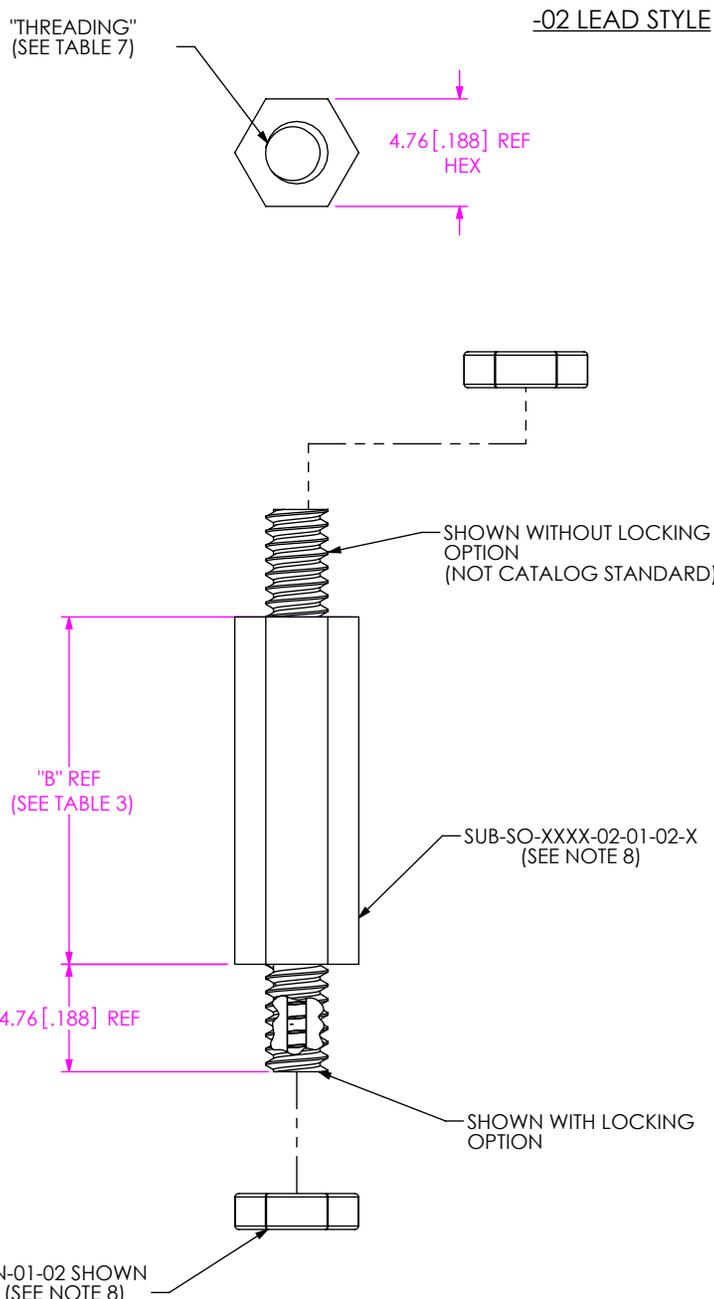


FIG 2  
SO-XXXX-02-01-02-X SHOWN

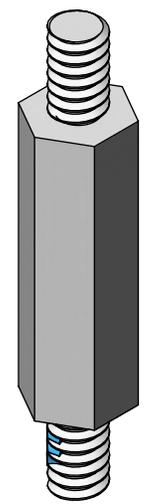
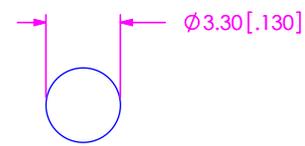


TABLE 3	
02 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"B"
-0515	5.15 [.203]
-0715	7.15 [.282]
-0865	8.65 [.341]
-1015	10.15 [.400]
-1115	11.15 [.439]
-1215	12.15 [.478]
-1315	13.15 [.518]
-1415	14.15 [.557]
-1515	15.15 [.597]
-1524	15.24 [.600]
-1615	16.15 [.636]
-1715	17.15 [.675]
-1890	18.90 [.744]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

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

SHEET SCALE: 1:0.333333

BY: T.NEWTON 12/6/2007 SHEET 2 OF 7

-03 LEAD STYLE

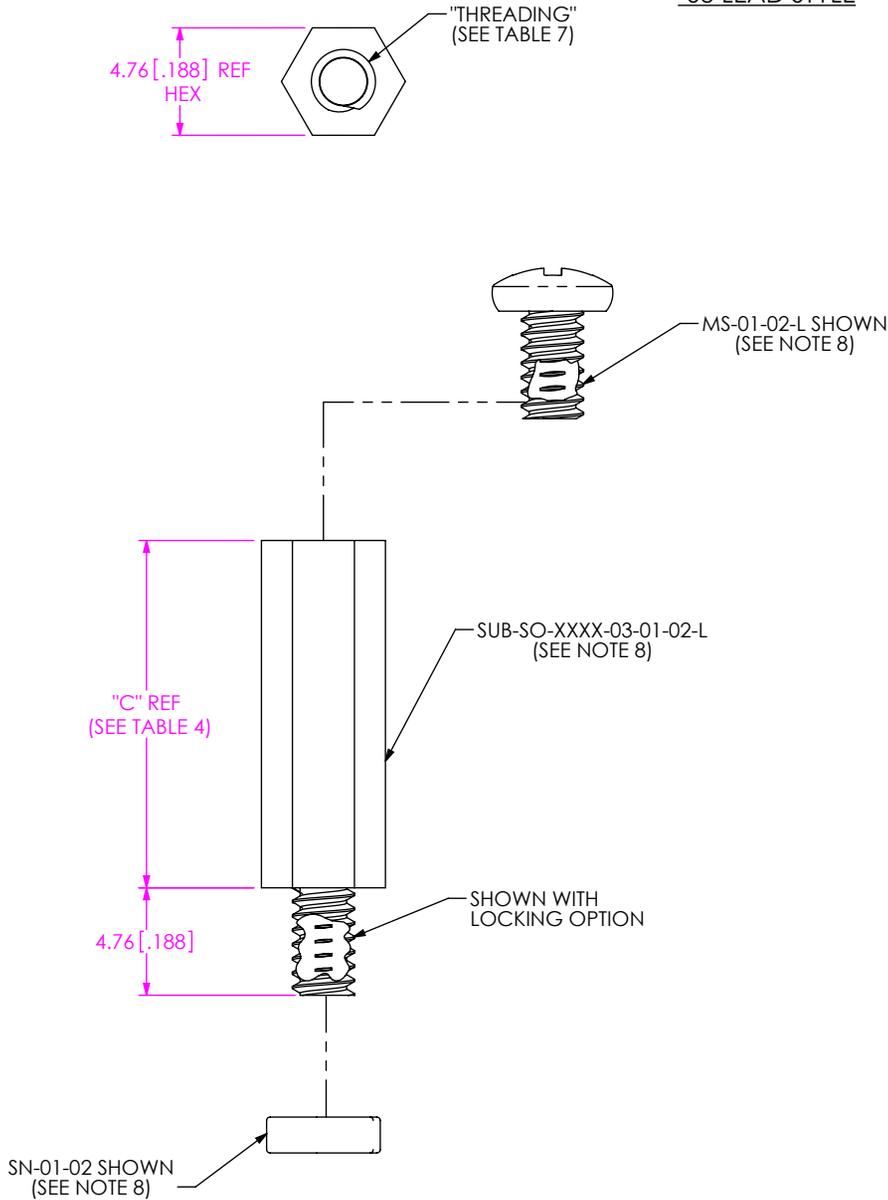
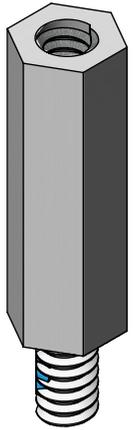


FIG 3  
SO-XXXX-03-01-02-X SHOWN  
(SAME AS -02 LEAD STYLE,  
EXCEPT WHERE STATED)

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

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-04 LEAD STYLE

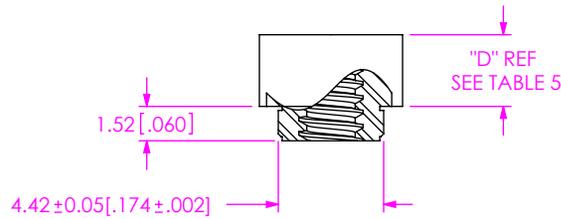
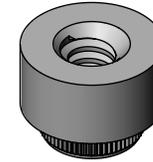
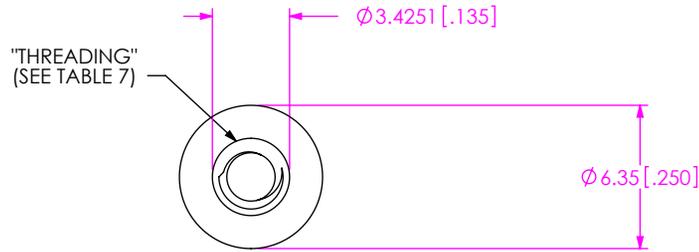
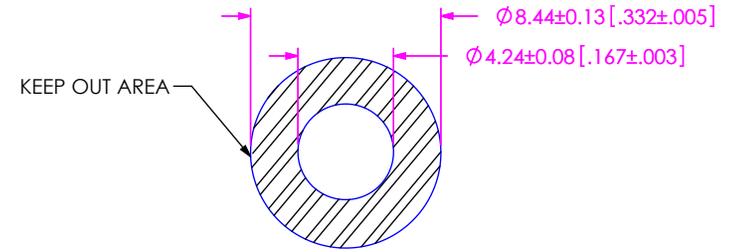


FIG 4  
SO-XXXX-04-01-02 SHOWN



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>BY: T.NEWTON 12/6/2007</p>	<p>SHEET 4 OF 7</p>

-05 LEAD STYLE

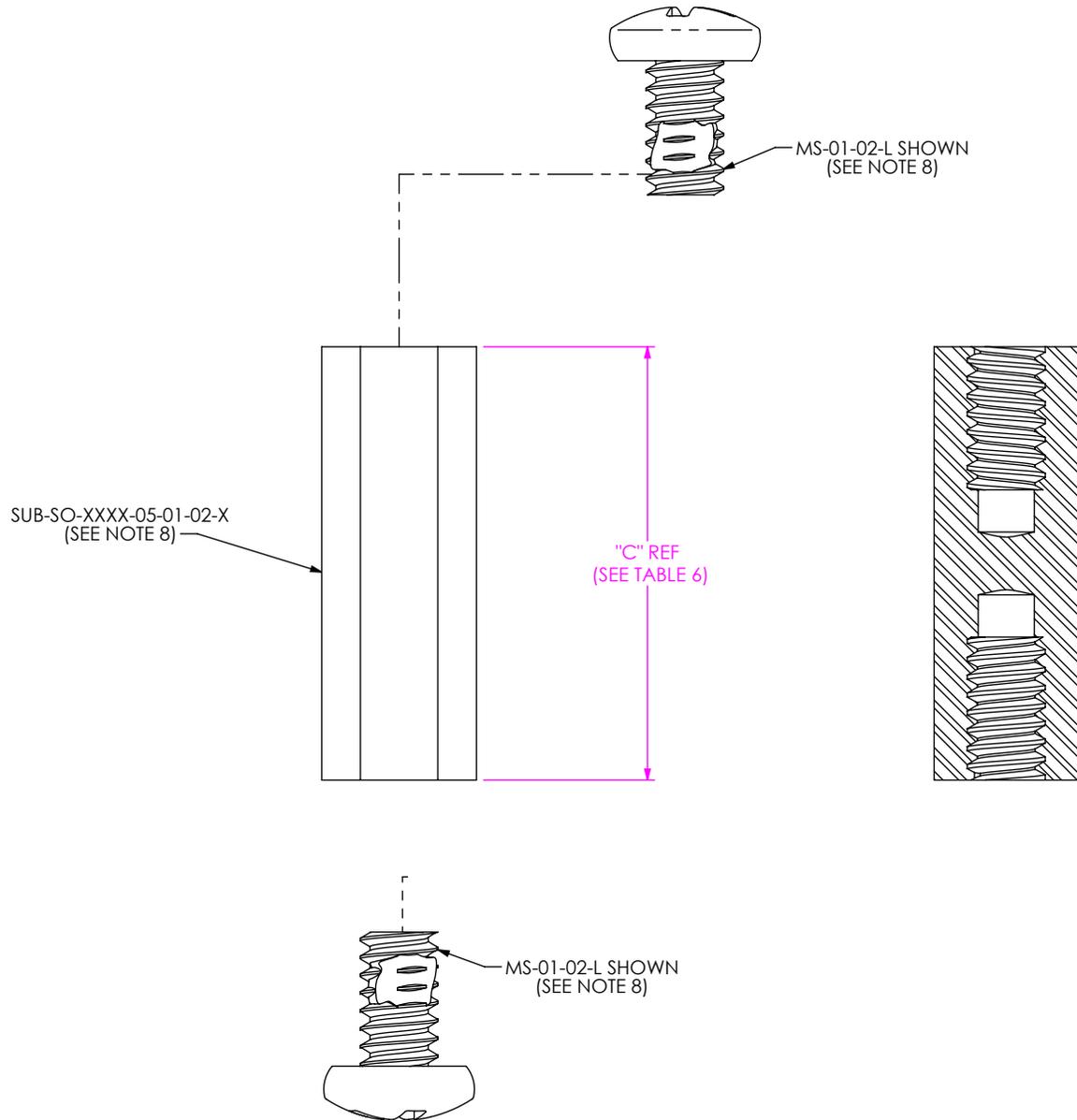
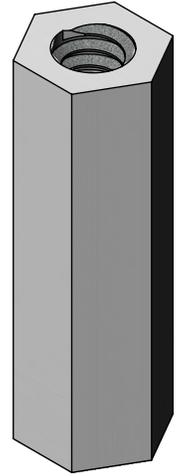


TABLE 6	
05 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"C"
-0515	5.15 [.203]
-0700	7.00 [.276]
-0915	9.15 [.360]
-1015	10.15 [.400]
-1115	11.15 [.439]
-1215	12.15 [.478]
-1315	13.15 [.518]
-1415	14.15 [.557]
-1515	15.15 [.596]
-1524	15.24 [.600]
-1615	16.15 [.636]
-1715	17.15 [.675]
-1890	18.90 [.744]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

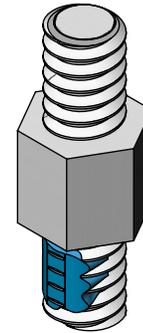
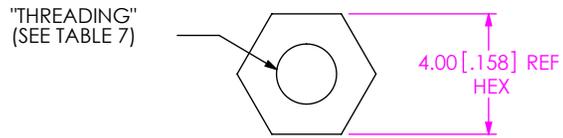
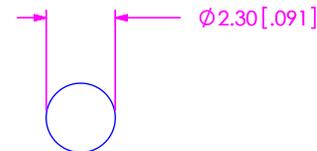
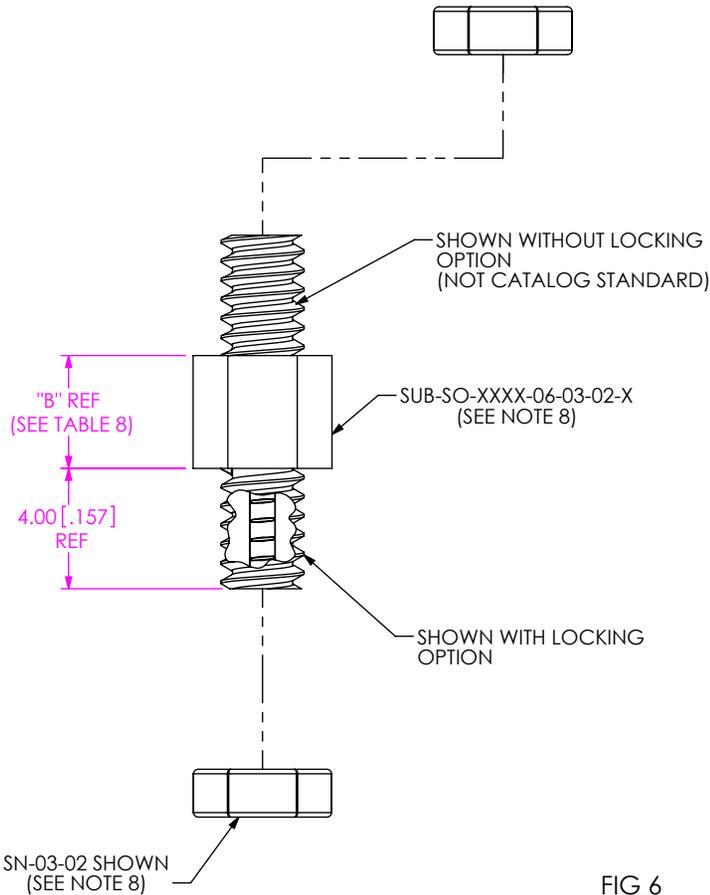


TABLE 8	
06 LEAD STYLE AVAILABILITY	
BOARD STACK HEIGHT	"B"
-0375	3.75 [.148]



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