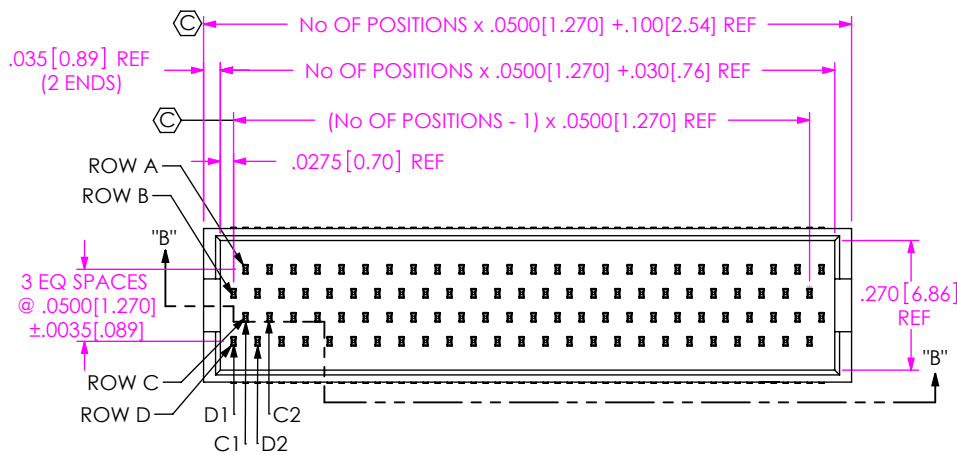


DO NOT SCALE FROM THIS PRINT

TOLC-1XX-XX-XXX-Q-XX-XX-XX



No OF POSITIONS
 -05, -10, -15, -20, -25
 -30, -35, -40, -45, -50
 (PER ROW)

LEAD STYLE
 (SEE TABLE 1)
 -02, -12, -22, -32

PACKAGING
 BLANK: TUBE (SEE NOTE 2)
 -TR: TAPE & REEL (SEE NOTE 7 & 8)
 -FR: FULL REEL QTY TAPE & REEL (SEE NOTE 7 & 8)

PLATING SPEC
 (VALUES GIVEN ARE IN MICRO-INCHES)

-S: SELECTIVE, 30 Au / 50 Ni MIN ON CONTACT, 3 Au / 50 Ni MIN ON TAIL

-L: LIGHT SELECTIVE, 10 Au / 50 Ni MIN ON CONTACT, 3 Au / 50 Ni MIN ON TAIL

-F: FLASH GOLD, 3 Au / 50 Ni MIN ON CONTACT, 3 Au / 50 Ni MIN ON TAIL

-STL: SELECTIVE, 30 Au / 100 Ni MIN ON CONTACT, 100-250 Sn-Pb / 50 Ni MIN ON TAIL (SEE NOTE 6)

PICK & PLACE OPTION

-P: PICK & PLACE PAD (EXISTING CUSTOMER SUPPORT ONLY) (USE ASP-90590-01-S)

-PL: PLASTIC PICK & PLACE PAD (USE ASP-90590-01-S)

-K: POLYIMIDE FILM PAD (USE K-DOT-.354-.469-.005)

OPTIONS

-LC: LOCKING CLIP (SEE NOTE 5) (USE LC-09-TM) (NOT AVAILABLE WITH -A)

-A: ALIGNMENT PIN (USE TOLC-XX-Q-A FOR STYLE -02 AND TOLCH-XX-Q-A FOR STYLES -12, -22 & -32) (NOT AVAILABLE WITH -LC)

ROW SPEC
 -Q: QUAD (USE TOLC-XX-Q)

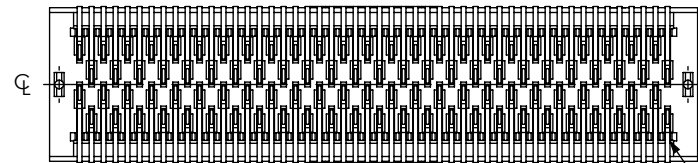
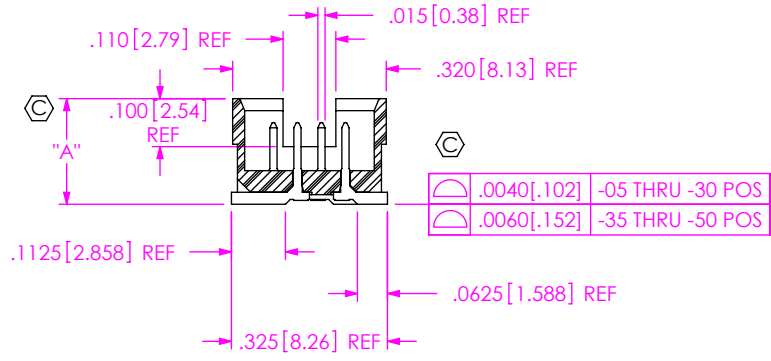
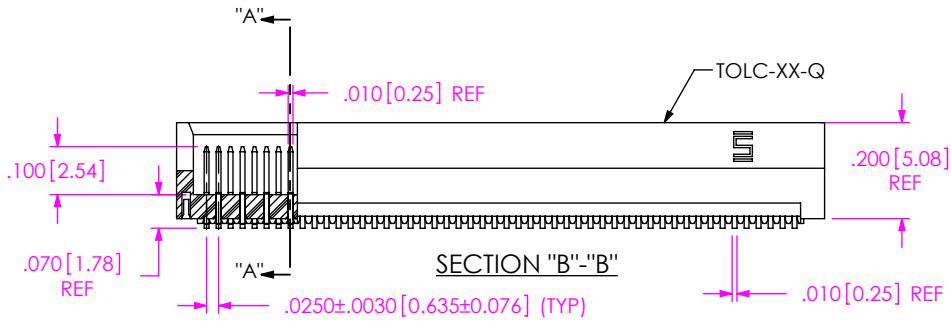


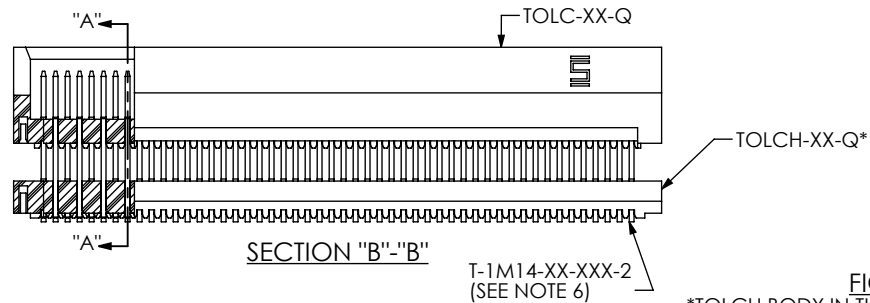
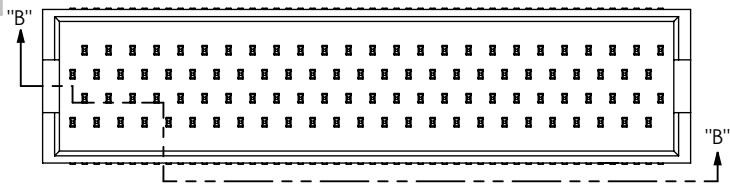
FIG 1

- NOTES:**
1. MINIMUM PUSHOUT FORCE: 6 OZ.
 2. PARTS TO BE PACKAGED IN TUBES.
 3. -S PLATING CAN BE SUBSTITUTED FOR -L AND -F PLATING STYLES.
 4. © REPRESENTS A CRITICAL DIMENSION.
 5. DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, THE -LC OPTION IS NOT COMPATIBLE WITH AUTO PLACEMENT. SAMTEC RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH THE -LC OPTION.
 6. FOR -STL PLATING:
 - USE SUB-T-1M13-01-STL-2 FOR -02 LEAD STYLE.
 - USE T-1M14-0X-STL-2 FOR -12, -22, -32 LEAD STYLES.
 7. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM.
 8. ATTACH LABEL TO EACH REEL.

TABLE 1

LEAD STYLE	"A"	USE TERMINAL	SEE FIG	BOARD SPACE WHEN MATED WITH SOLC
-02	.2200[5.588]	T-1M13-01-XXX-2	1	.2500[6.350]
-12	.2850[7.239]	T-1M14-02-XXX-2	2	.3150[8.000]
-22	.3637[9.238]	T-1M14-03-XXX-2	2	.3937[10.000]
-32	.4424[11.237]	T-1M14-04-XXX-2	2	.4724[12.000]

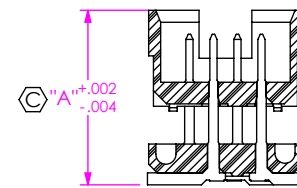
<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:</p> <p>DECIMALS ANGLES .XX: ±.01[0.3] ±5° .XXX: ±.005[0.13] .XXXX: ±.0020[0.051]</p>	<p>PROPRIETARY NOTE</p> <p>THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT 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.</p>	 520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code 55322



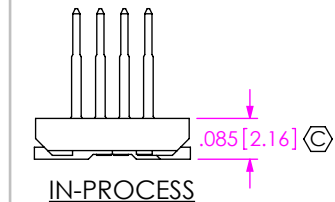
SECTION "B"-"B"

T-1M14-XX-XXX-2
(SEE NOTE 6)

FIG 2
*TOLCH BODY IN THIS DESIGN REFLECTS
ALTERNATE STANDOFF DESIGN

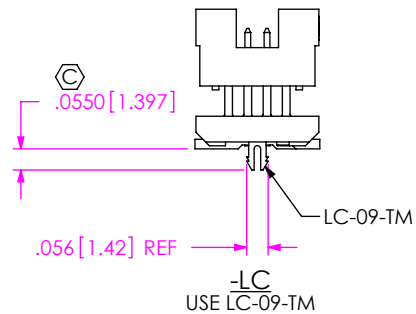


⊕ "A" +.002
-.004

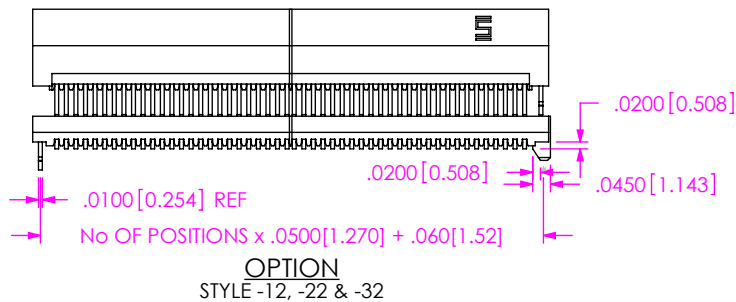


IN-PROCESS

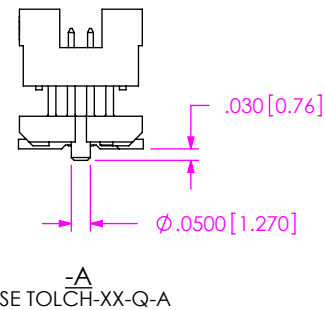
⊕ .0040 [.102]	-05 THRU -30 POS
⊕ .0060 [.152]	-35 THRU -50 POS



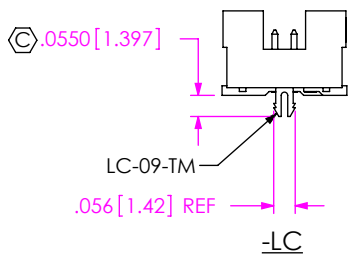
-LC
USE LC-09-TM



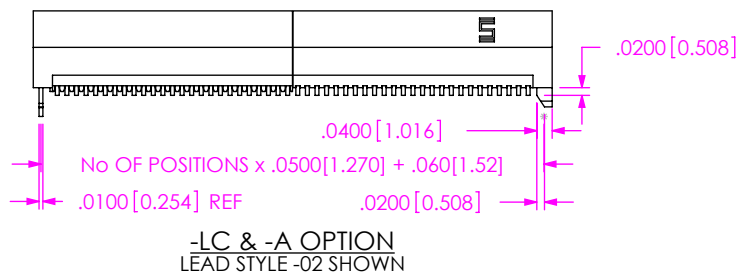
OPTION
STYLE -12, -22 & -32



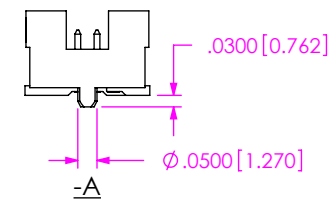
-A
USE TOLCH-XX-Q-A



-LC



-LC & -A OPTION
LEAD STYLE -02 SHOWN



-A

PROPRIETARY NOTE
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.



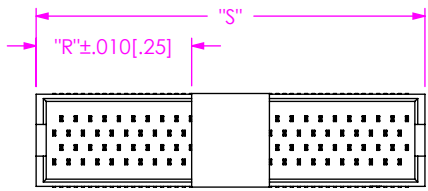
520 PARK EAST BLVD., NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

SHEET SCALE: 1:0.4

DESCRIPTION:
QUAD ROW STAGGERED SMT TERMINAL ASM
DWG. NO.

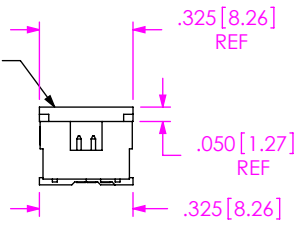
TOLC-1XX-XX-XXX-Q-XX-XX-XX

BY: D PURVIS 03/18/1996 SHEET 2 OF 3

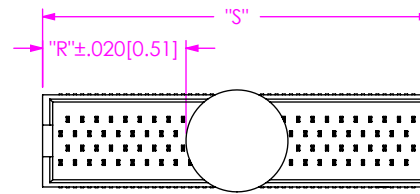


"S" = (# OF POS x .050[1.27]) + .100[2.54]
 "R" = (S/2) - .135[3.429]

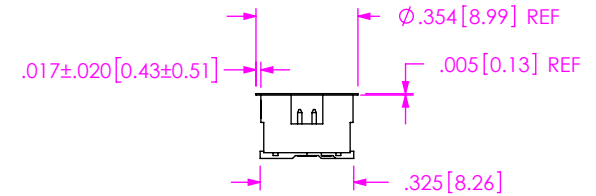
ASP-90590-01-S



-P & -PL OPTION
 PICK & PLACE PAD

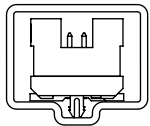


"S" = (# OF POS x .050[1.27]) + .100[2.54]
 "R" = (S/2) - (.354[9.00]/2)

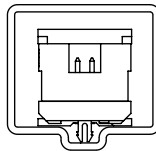


-K OPTION
 PICK & PLACE PAD

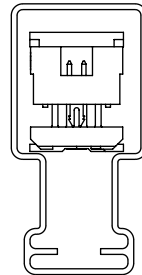
TABLE 2			
LEAD STYLE	OPTIONS	PACKAGING TUBE	PLUG
-02	ALL	PT-1-24-02-70	TP-07
-12	-LC-P	PT-1-24-01-70	TP-29
-12	NONE, -K, -A, -LC	PT-1-24-02-70	TP-07
-22	-P, -A-P	PT-1-24-01-44	TP-13
-22	NONE, -K, -A, -LC	PT-1-24-01-70	TP-29
-32	ALL	PT-1-24-01-44	TP-13



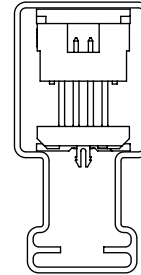
-02/-12-K/-12-LC
 PT-1-24-02-70 TUBE
 TP-07 PLUG



-12-LC-P/-22/-22-K/-22-LC-P
 PT-1-24-01-70 TUBE
 TP-29 PLUG



-22-P/-22-A-P
 PT-1-24-01-44 TUBE
 TP-13 PLUG



-32
 PT-1-24-01-44 TUBE
 TP-13 PLUG

PACKAGING VIEWS

PROPRIETARY NOTE

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

SHEET SCALE: 1:0.4

DESCRIPTION:
 QUAD ROW STAGGERED SMT TERMINAL ASM

DWG. NO.
 TOLC-1XX-XX-XXX-Q-XX-XX-XX

BY: D PURVIS 03/18/1996 SHEET 3 OF 3