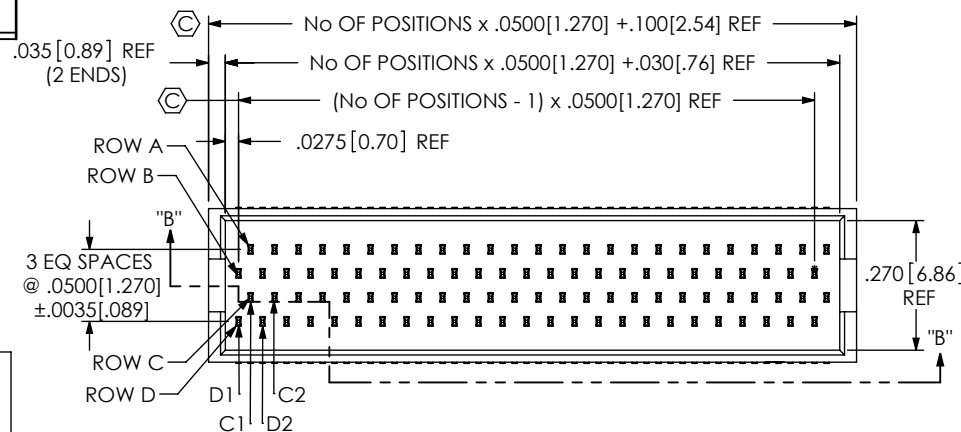


DO NOT  
SCALE FROM  
THIS PRINT

## TOLC-1XX-XX-X-Q-XX

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

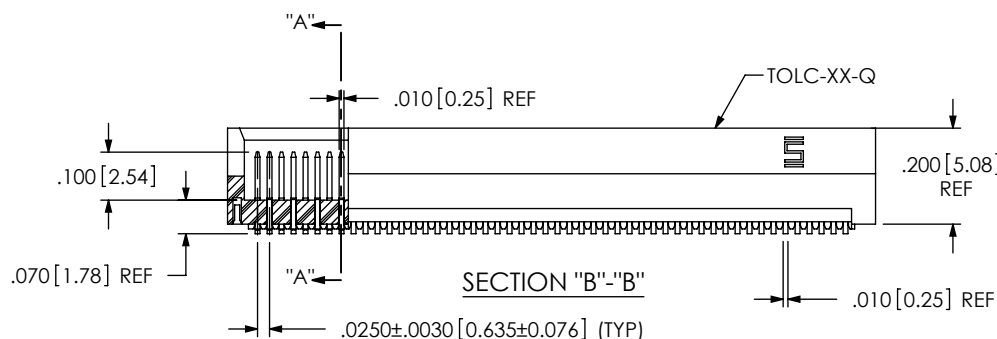
LEAD STYLE  
(SEE TABLE 1)  
-02, -12, -22, -32

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

OPTIONS  
-LC: LOCKING CLIP (SEE NOTE 5)  
(USE LC-09-TM)  
(NOT AVAILABLE WITH -A)  
-P: PICK & PLACE PAD  
(EXISTING CUSTOMER SUPPORT ONLY)  
(USE ASP-90590-01-S)  
-TR: TAPE & REEL  
-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)  
-PL: PLASTIC PICK & PLACE PAD  
(USE ASP-90590-01-S)  
-K: POLYIMIDE FILM PAD  
(USE K-DOT-.354-.469-.005)

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



## SECTION "B"-"B"

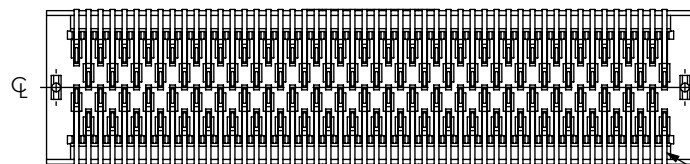
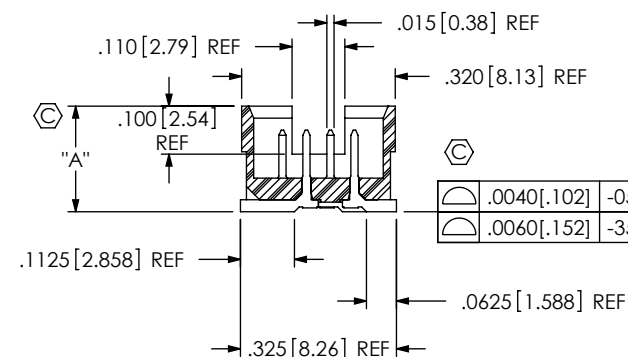
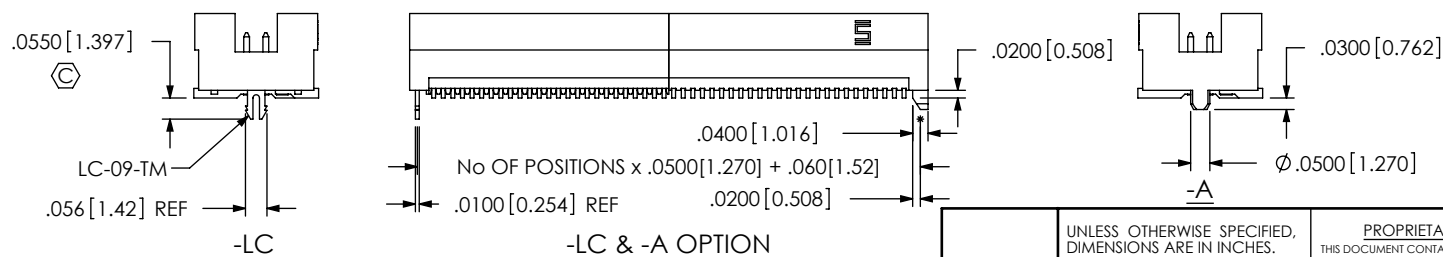


FIG 1



## SECTION "A"-"A"

|  |              |                  |
|--|--------------|------------------|
|  | .0040 [1.02] | -05 THRU -30 POS |
|  | .0060 [1.52] | -35 THRU -50 POS |



-LC & -A OPTION  
LEAD STYLE -02 SHOWN

| 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]                   |

## NOTES:

1. MINIMUM PUSHOUT FORCE: .5 LB.
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.

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS ANGLES  
.XX: ±.01 [3] ±5°  
.XXX: ±.005 [13]  
.XXXX: ±.0020 [051]

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OBTAINED WITHOUT THE EXPRESSED WRITTEN  
CONSENT OF SAMTEC, INC.

## MATERIAL:

BODY:  
LCP UL 94 VO, COLOR: BLACK  
TERMINAL:  
PHOSPHOR BRONZE

F:\DWG\MISC\MKTG\TOLC-1XX-XX-X-Q-XX-MKT.SLDDRW

DO NOT SCALE DRAWING

SHEET SCALE: 1:0.4

**samtec**

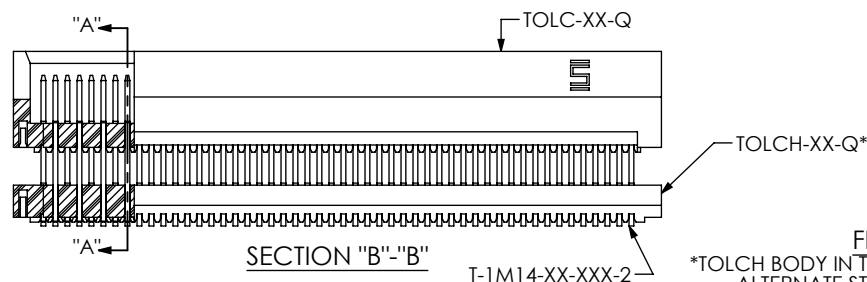
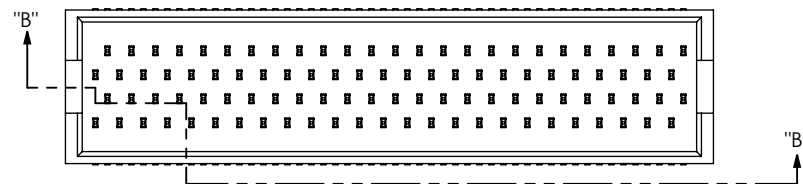
520 PARK EAST BLVD, NEW ALBANY, IN 47150  
PHONE: 812-944-6733 FAX: 812-948-5047  
e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:  
QUAD ROW STAGGERED SMT TERMINAL ASM

DWG. NO.

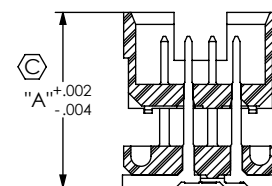
TOLC-1XX-XX-X-Q-XX

BY: D PURVIS 03/18/1996 SHEET 1 OF 2

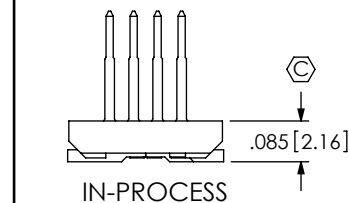


SECTION "B"- "B"

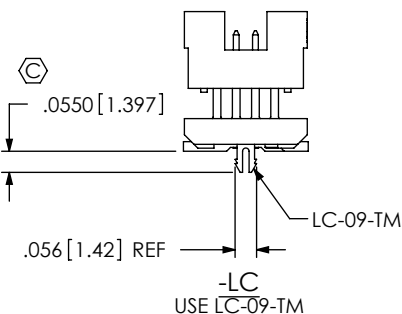
T-1M14-XX-XXX-2

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


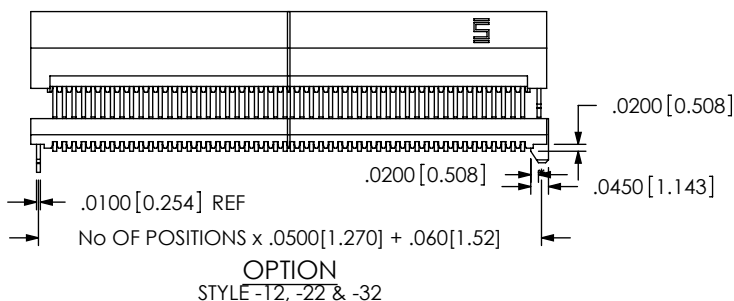
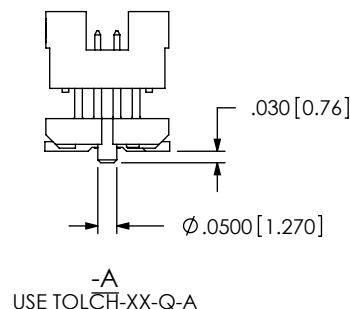
SECTION "A"- "A"



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

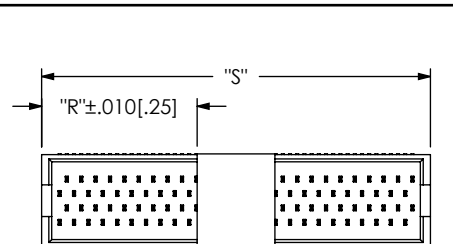


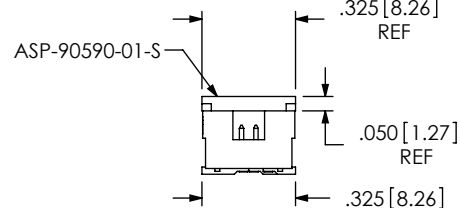
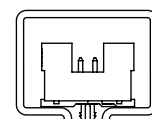
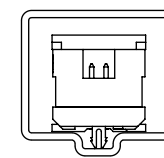
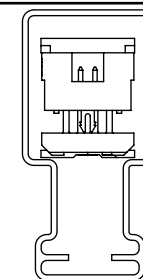
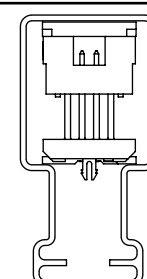
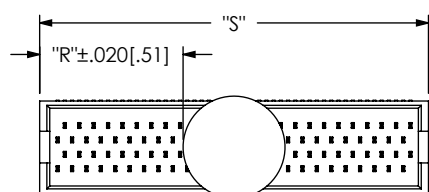
USE LC-09-TM

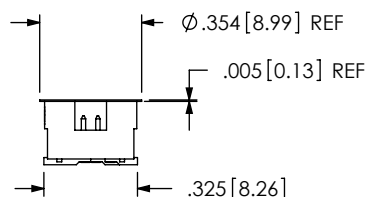

OPTION  
STYLE -12, -22 & -32


USE TOLCH-XX-Q-A

| TABLE 2    |                   |                |       |
|------------|-------------------|----------------|-------|
| LEAD STYLE | OPTIONS           | PACKAGING TUBE | PLUG  |
| -02        | ALL               | PT-1-24-02-70  | TP-03 |
| -12        | -P                | PT-1-24-01-70  | TP-29 |
| -12        | NONE, -K, -A      | PT-1-24-02-70  | TP-03 |
| -22        | -P, -P-A          | 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 |


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

-P & -PL OPTION  
PICK & PLACE PAD

PACKAGING  
VIEWS

-02 / 12-K  
PT-1-24-02-70 TUBE  
TP-03 PLUG

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

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

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

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

-K OPTION  
PICK & PLACE PAD


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SHEET SCALE: 1:0.4

**samtec**

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e-Mail: info@SAMTEC.com code 55322

DESCRIPTION:  
QUAD ROW STAGGERED SMT TERMINAL ASM

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

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