

PICK UP CAP

COVER

SPACER

BASE

PICK UP CAP

COVER

BASE

Technical drawing of a 2x8 pin connector assembly. The drawing shows a top-down view of the assembly, which consists of two main sections, each containing a 4x8 grid of pins. The dimensions are as follows:

- Overall width: 38.35 (nominal) and 38.05 (minimum).
- Overall height: 28.60 (nominal) and 25.50 (minimum).
- Pin pitch (horizontal): 10.0.
- Pin pitch (vertical): 2.5.
- Pin diameter: $\varnothing 1.25$.
- Pin length: 24.3.
- Pin material: FLAT AREA PICK UP CAP.
- Pin position: POS A1, POS A2, POS T25.
- Pin material: -P-.
- Pin material: -M-.

15mm SHOWN
SCALE 2:1

POS AI MARKER

PART NUMBER

DATE CODE

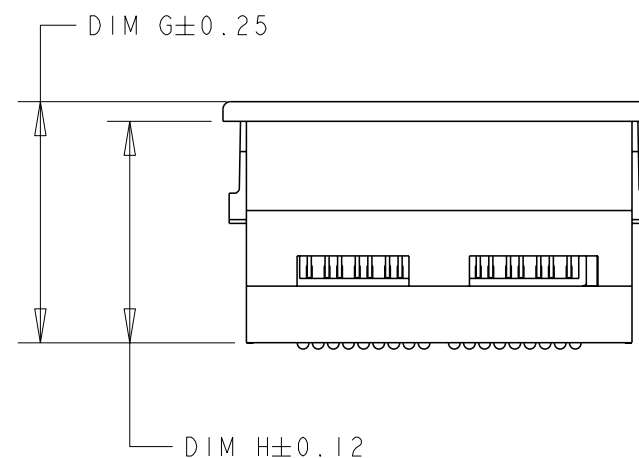
0.42 REF

Ø0.76 SOLDER BALLS

3

Ø0.30 P M

TYP

1470-19 (3/13)

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

1 MATERIAL:
BASE, SPACER, COVER: THERMOPLASTIC
PICK UP CAP: THERMOPLASTIC
CONTACT: COPPER ALLOY
SOLDER BALL: Sn/Pb FOR P/N 1761614-1 THRU 5-1761614-0
Sn/Ag FOR P/N 5-1761614-1 THRU 9-1761614-9

2 FINISH:
CONTACT: 0.00076 MIN GOLD OVER 0.00127 MIN NICKEL.
(30µ" MIN GOLD OVER 50µ" MIN NICKEL)

3 SOLDER BALLS WILL NOT BE PERFECT
SPHERICAL SHAPE DUE TO REFLOW ATTACHMENT.

4 CONTACTS IN ROWS A,C,E,G,J,K,M,P,R, AND T
ARE SINGLE BEAM CONTACTS,
TYPICALLY USED AS GROUND PINS.
(NOTE: CONTACTS IN ROW J & K ARE TIED
TOGETHER [COMMONED]).

5 CONTACTS IN ROWS B,D,F,H,L,N,Q, AND S
ARE DUAL BEAM CONTACTS,
TYPICALLY USED AS SIGNAL PINS.

6 SPECIFIED POSITIONAL TOLERANCE DEFINES PAD TO PAD
LOCATION WITHIN LAND PATTERN. POSITIONAL TOLERANCE
OF LAND PATTERN TO FUDICIAL MARKS OR PCB DATUMS
SHALL BE DEFINED BY CUSTOMER. FOR RECOMMENDED
PRODUCT APPLICATION AND PCB DESIGN DETAILS, SEE
APPLICATION SPEC 114-13101.

7 SOLDER PADS UNUSED, MAY BE OMITTED.

8 REFERENCE BOARD PATTERN FOR DIMENSIONS
AND DETAILS NOT SHOWN.

11.65	12.95	SELECT LOAD-112 POSN-SEE VIEW 35	12mm Sn/Ag	8-1761614-5
12.65	13.95	SELECT LOAD-104 POSN-SEE VIEW 31	13mm Sn/Ag	8-1761614-3
19.65	20.95	SELECT LOAD-104 POSN-SEE VIEW 31	20mm Sn/Ag	8-1761614-2
9.65	10.95	SELECT LOAD-104 POSN-SEE VIEW 31	10mm Sn/Ag	8-1761614-1
24.65	25.95	FULL LOAD-200 POSN	25mm Sn/Ag	7-1761614-5
19.65	20.95	FULL LOAD-200 POSN	20mm Sn/Ag	7-1761614-0
14.65	15.95	FULL LOAD-200 POSN	15mm Sn/Ag	6-1761614-5
12.65	13.95	FULL LOAD-200 POSN	13mm Sn/Ag	6-1761614-3
11.65	12.95	FULL LOAD-200 POSN	12mm Sn/Ag	6-1761614-2
9.65	10.95	FULL LOAD-200 POSN	10mm Sn/Ag	6-1761614-0

OBSOLETE

9.65	10.95	SELECT LOAD-120 POSN-SEE VIEW 34	10mm Sn/Pb	3-1761614-4
12.65	13.95	SELECT LOAD-104 POSN-SEE VIEW 31	13mm Sn/Pb	3-1761614-3
19.65	20.95	SELECT LOAD-104 POSN-SEE VIEW 31	20mm Sn/Pb	3-1761614-2
9.65	10.95	SELECT LOAD-104 POSN-SEE VIEW 31	10mm Sn/Pb	3-1761614-1
24.65	25.95	FULL LOAD-200 POSN	25mm Sn/Pb	2-1761614-5
19.65	20.95	FULL LOAD-200 POSN	20mm Sn/Pb	2-1761614-0
14.65	15.95	FULL LOAD-200 POSN	15mm Sn/Pb	1-1761614-5
12.65	13.95	FULL LOAD-200 POSN	13mm Sn/Pb	1-1761614-3
11.65	12.95	FULL LOAD-200 POSN	12mm Sn/Pb	1-1761614-2
9.65	10.95	FULL LOAD-200 POSN	10mm Sn/Pb	1-1761614-0

DIM H	DIM G	LOAD STYLE	DESCRIPTION	PART NUMBER
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THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±
1 PLC ±0.3
2 PLC ±0.10
3 PLC ±0.050
4 PLC ±
ANGLES ±2°

MATERIAL
-

FINISH
-

DWN
P BRANDBERG
17DEC04

CHK
D WERTZ
05JAN05

APVD
D WERTZ
05JAN05

PRODUCT SPEC
108-2143

APPLICATION SPEC
114-13101

WEIGHT
-

CUSTOMER DRAWING

TE Connectivity

NAME
STEP-Z, PLUG ASSEMBLY,
200 SIGNAL POSITION
-

SIZE
A3

CAGE CODE
00779

DRAWING NO
C-1761614

RESTRICTED TO

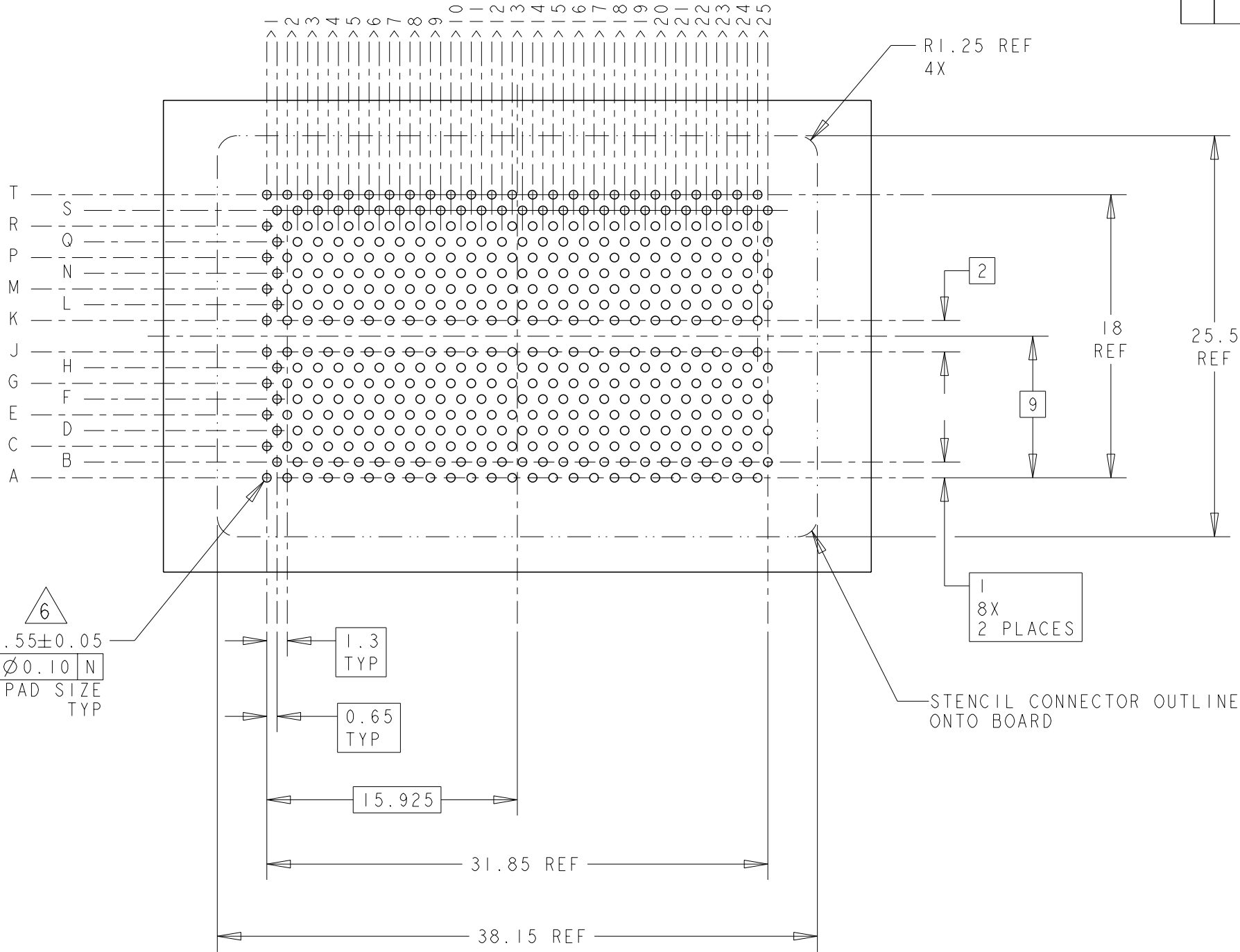
SCALE
2:1

SHEET
2 OF 5

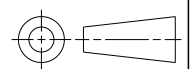
REV
A7

REVISIONS

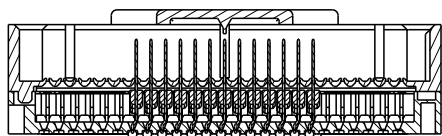
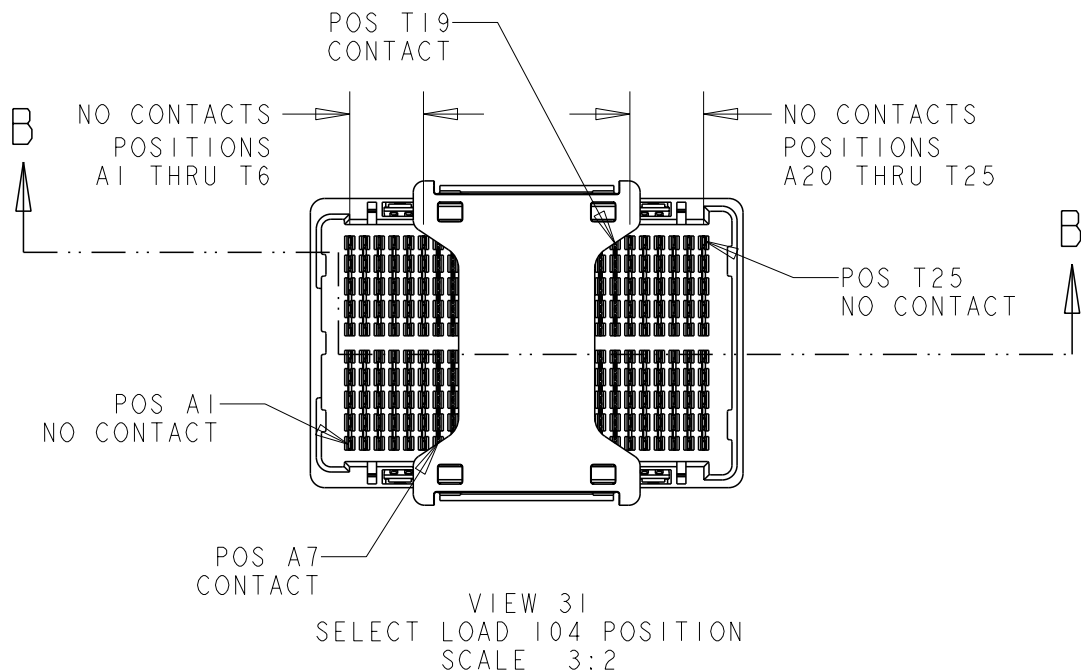
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



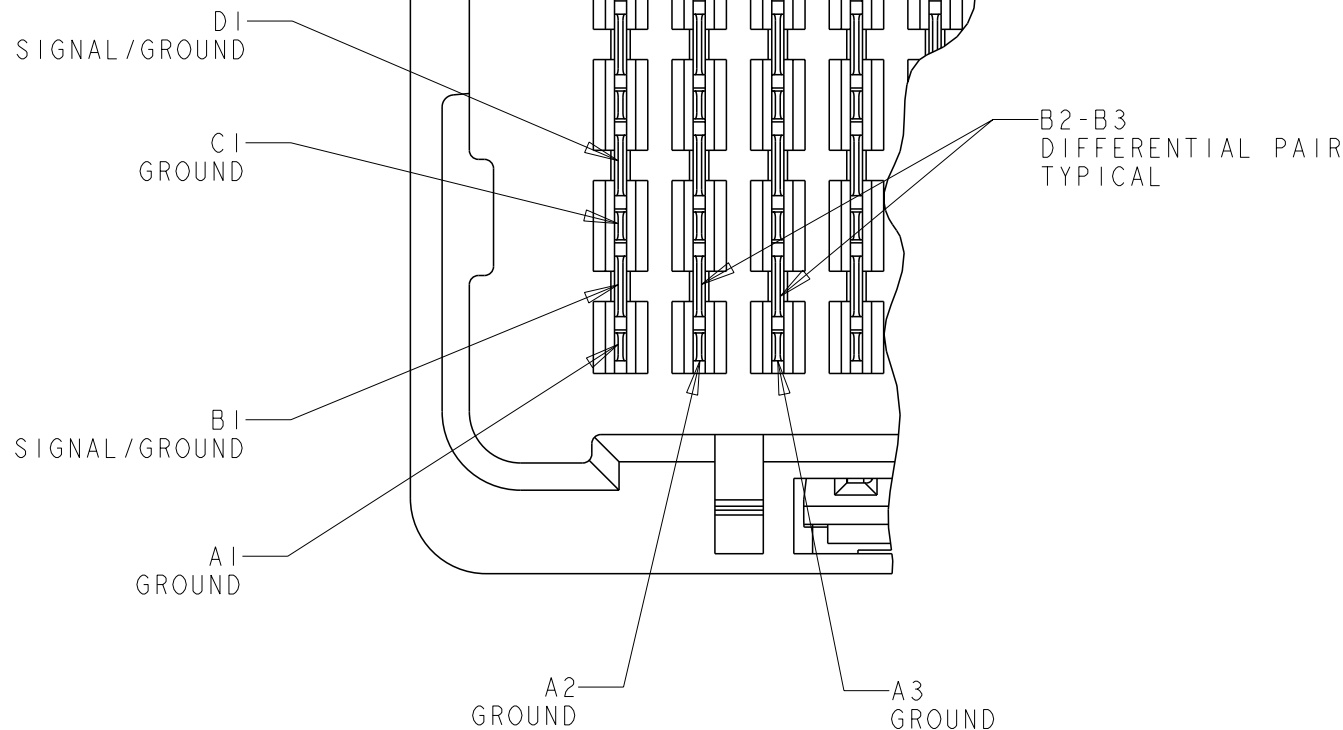
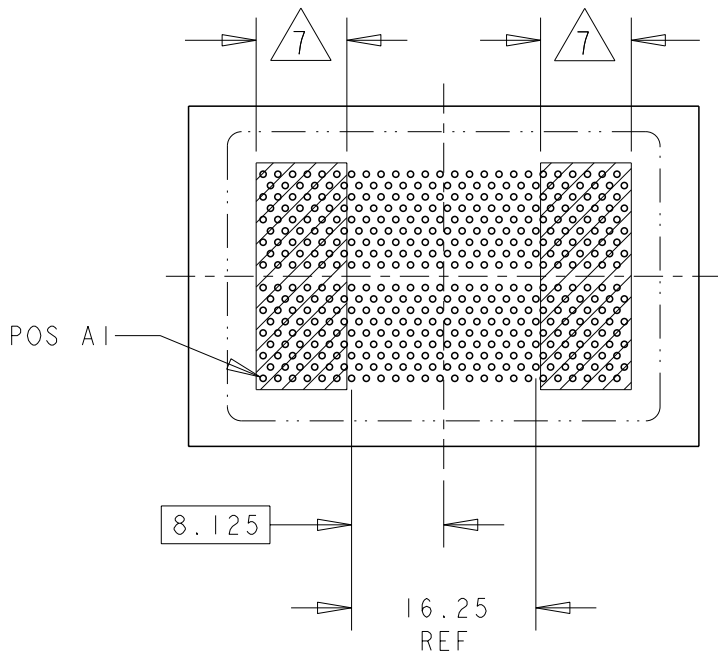
4 5 BOARD PATTERN
SCALE 3:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN P BRANDBERG 17DEC04		 TE Connectivity			
		CHK D WERTZ 05JAN05					
DIMENSIONS: mm		APVD D WERTZ 05JAN05		NAME STEP-Z, PLUG ASSEMBLY, 200 SIGNAL POSITION -			
		PRODUCT SPEC 108-2143					
		APPLICATION SPEC 114-13101					
MATERIAL -		WEIGHT -		SIZE A3	CAGE CODE 00779	DRAWING NO C-1761614	RESTRICTED TO
				CUSTOMER DRAWING			
				SCALE 2:1	SHEET 3 OF 5	REV A7	

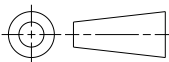
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



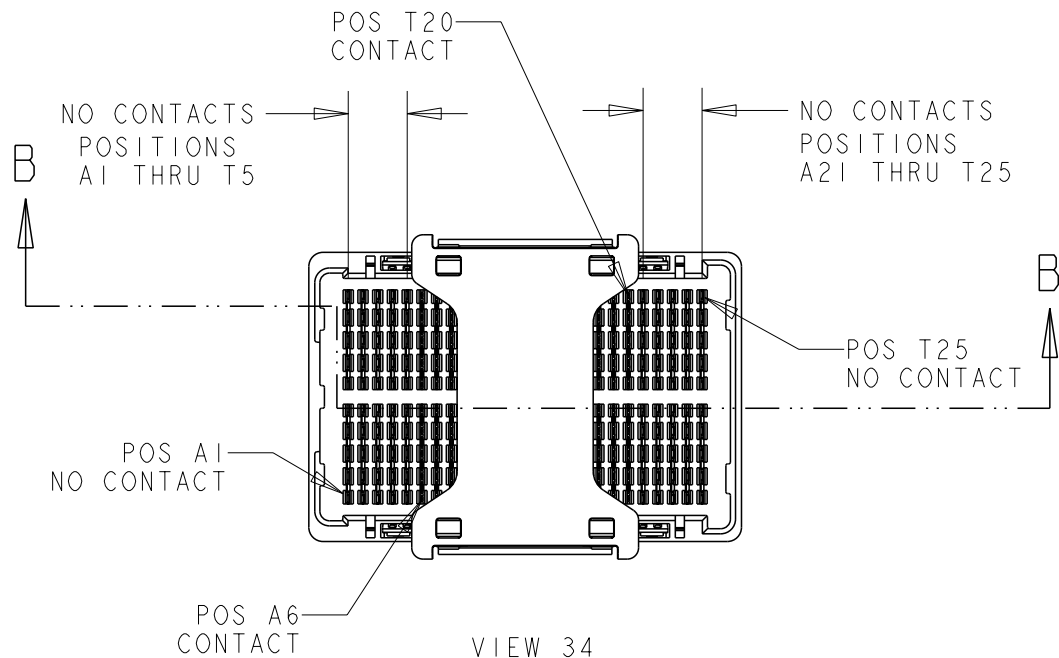
SECTION B-B



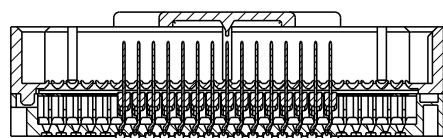
PLUG INTERFACE
SCALE 8:1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN P BRANDBERG 17DEC04		 TE Connectivity											
		CHK D WERTZ 05JAN05													
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME STEP-Z, PLUG ASSEMBLY, 200 SIGNAL POSITION -											
		0 PLC ±- 1 PLC ±0.3 2 PLC ±0.10 3 PLC ±0.050 4 PLC ±- ANGLES ±2°													
MATERIAL -		FINISH -		PRODUCT SPEC 108-2143		SIZE A3		CAGE CODE 00779		DRAWING NO C-1761614		RESTRICTED TO			
				APPLICATION SPEC 114-13101		WEIGHT -									
CUSTOMER DRAWING										SCALE 2:1		SHEET 4 OF 5		REV A7	

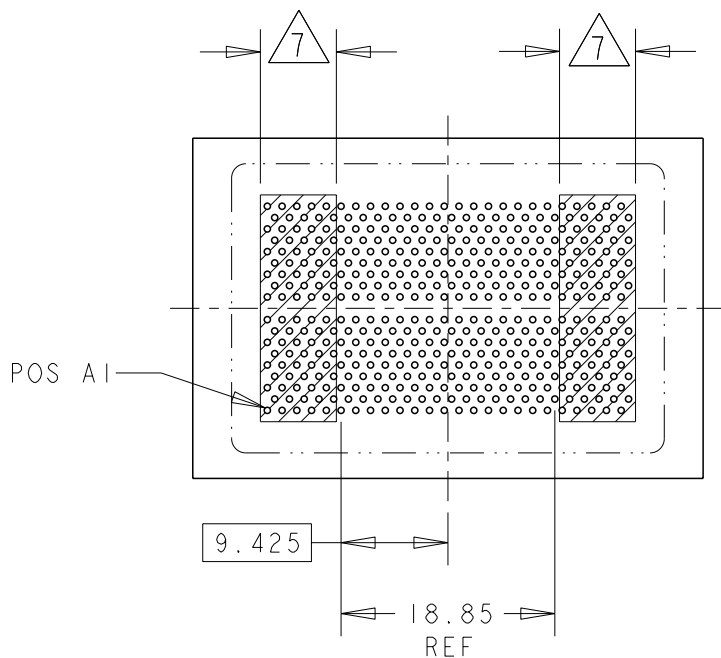
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-



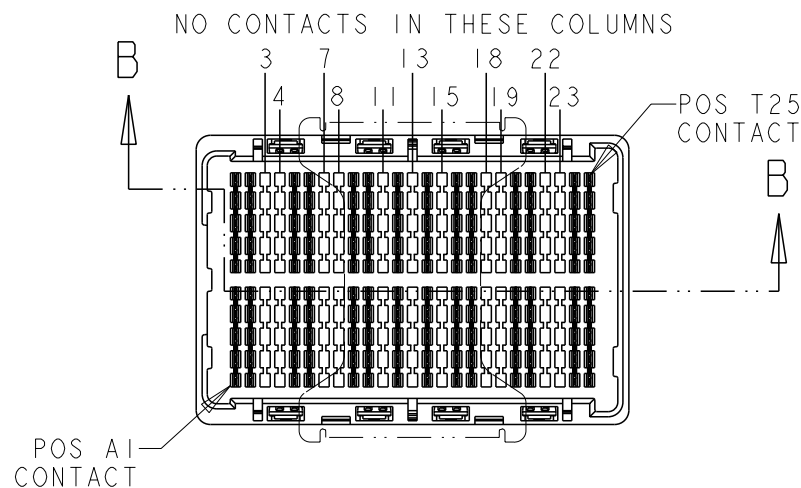
VIEW 34
SELECT LOAD 120 POSITION
SCALE 3:2



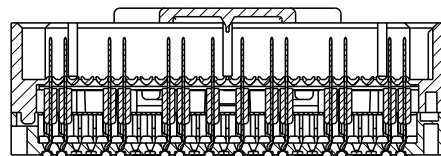
SECTION B - B



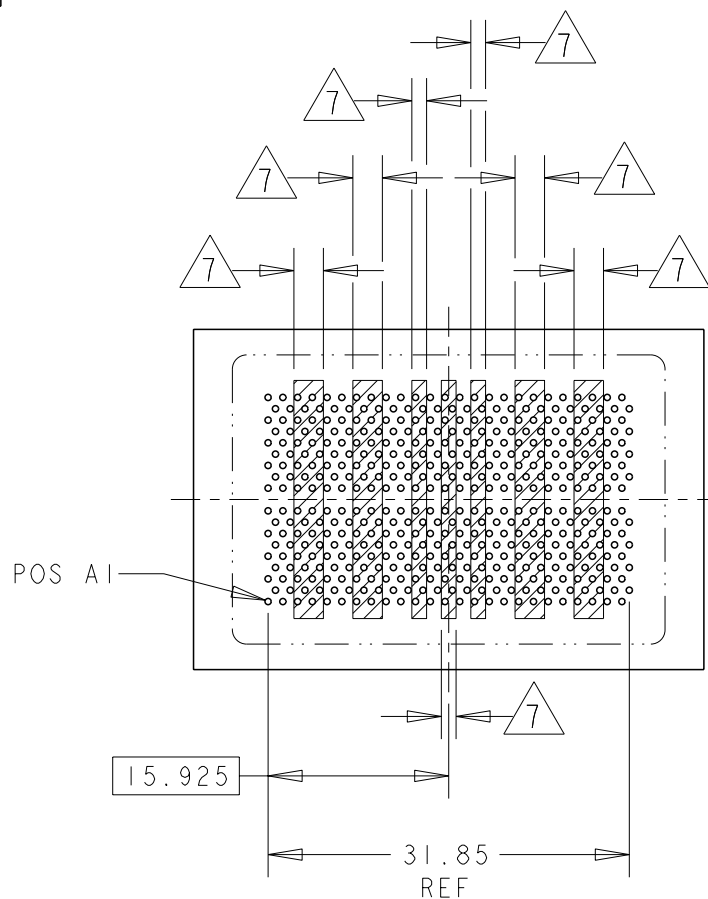
VIEW 34
SELECT LOAD 120 POSITION
BOARD PATTERN
SCALE 3:2



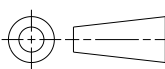
VIEW 35
SELECT LOAD 112 POSITION
SCALE 3:2



SECTION B - B



VIEW 35
SELECT LOAD 112 POSITION
BOARD PATTERN
SCALE 3:2

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN P BRANDBERG 17DEC04		TE Connectivity							
		CHK D WERTZ 05JAN05									
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME STEP-Z, PLUG ASSEMBLY, 200 SIGNAL POSITION							
		0 PLC ±- 1 PLC ±0.3 2 PLC ±0.10 3 PLC ±0.050 4 PLC ±- ANGLES ±2°									
MATERIAL -		FINISH -		SIZE A3		CAGE CODE 00779		DRAWING NO C-1761614		RESTRICTED TO	
				WEIGHT -							
CUSTOMER DRAWING						SCALE 2:1		SHEET 5 OF 5		REV A7	