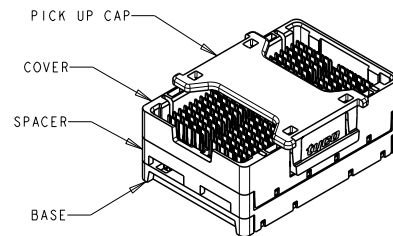
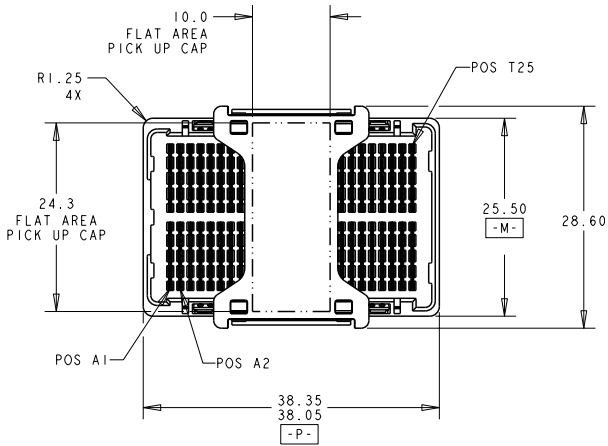
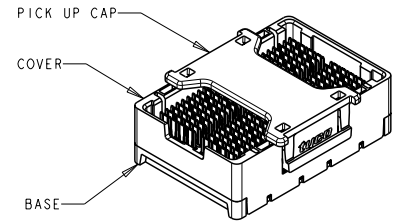


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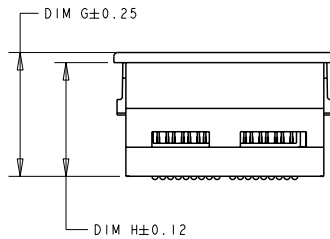
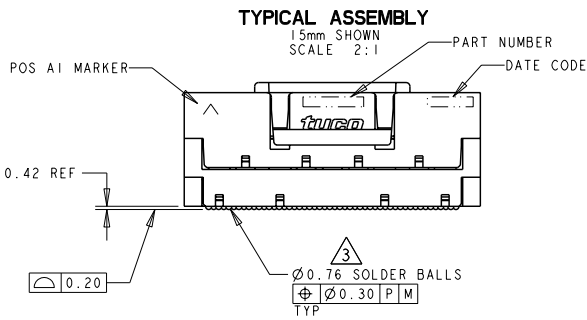
LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00				
A4		REV PER ECO-06-017839	27 JUL 2006	BC	DD
A5		REV PER ECO-07-026914	14 NOV 2007	BC	DD



**ISOMETRIC VIEW**  
 TYPICAL CONFIGURATION FOR  
 15mm, 20mm & 25mm ASSEMBLY  
 SCALE 3:2



**ISOMETRIC VIEW**  
 TYPICAL CONFIGURATION FOR  
 10mm, 12mm, & 13mm ASSEMBLY  
 SCALE 3:2



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DIMENSIONS: mm 	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.3 2 PLC ±0.10 3 PLC ±0.050 4 PLC ±- ANGLES 45° MATERIAL 	FINISH 	SCALE - SHEET 1 OF 5 REV A5

AMP 1470-19 REV 31MAR2000

Pro/ENGINEER DRAWING

4

3

2


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LOC	DIST	REVISIONS					
GP	00	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,O, 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.

DIM H	DIM G	LOAD STYLE	DESCRIPTION	PART NUMBER
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
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

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DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±. 1 PLC ±0.3 2 PLC ±0.10 3 PLC ±0.050 4 PLC ±. ANGLES 42°	NAME STEP-Z, PLUG ASSEMBLY, 200 SIGNAL POSITION	RESTRICTED TO
	MATERIAL - FINISH -	PRODUCT SPEC 108-2143 APPLICATION SPEC 114-13101 WEIGHT - SIZE A3 CAGE CODE 00779 DRAWING NO. 1761614	CUSTOMER DRAWING SCALE - SHEET 2 OF 5 REV A5

4

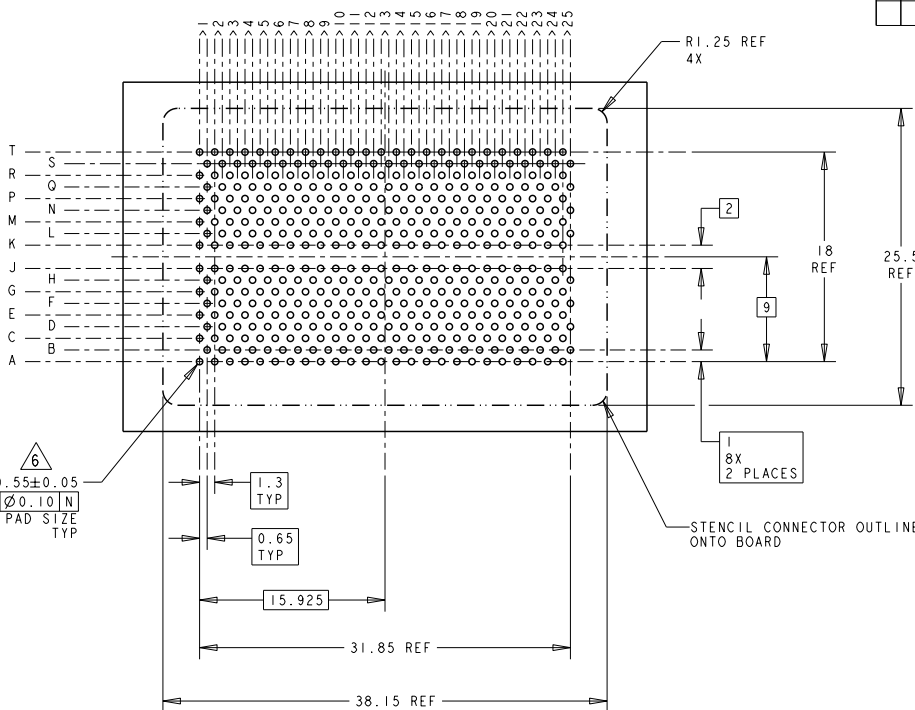
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2

1

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LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00	SEE SHEET 1	-	-	-



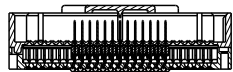
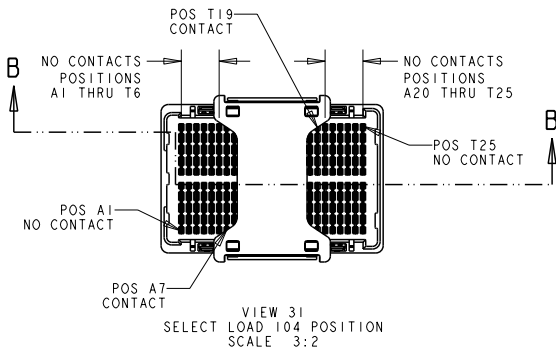
**4 5 BOARD PATTERN**  
 SCALE 3:1

<small>THIS DRAWING IS A CONTROLLED DOCUMENT FOR TYCO ELECTRONICS CORPORATION          IT IS SUBJECT TO CHANGE AND THE CONTROLLING ENGINEERING ORGANIZATION          SHOULD BE CONTACTED FOR THE LATEST REVISION.</small>		DWN P BRANDBERG 17DEC04 CHK D WERTZ 05JAN05 APVD D WERTZ 05JAN05	<b>Tyco Electronics</b> Tyco Electronics Harrisburg, PA 17105-3608
DIMENSIONS: mm 	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.3 2 PLC ±0.10 3 PLC ±0.050 4 PLC ± ANGLES ±°	NAME STEP-Z, PLUG ASSEMBLY, 200 SIGNAL POSITION PRODUCT SPEC 108-2143 APPLICATION SPEC 114-13101	SIZE CAGE CODE DRAWING NO RESTRICTED TO A3 00779 C-1761614 -
MATERIAL -	FINISH -	WEIGHT -	CUSTOMER DRAWING
		SCALE -	SHEET 3 OF 5 REV A5

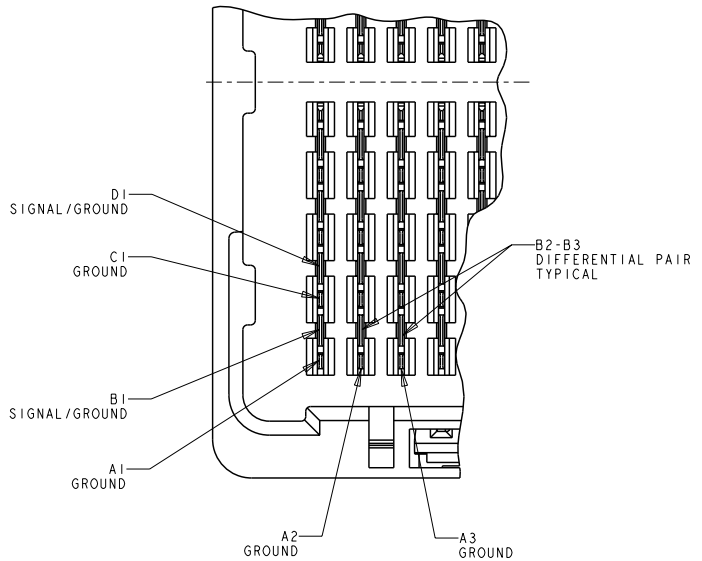
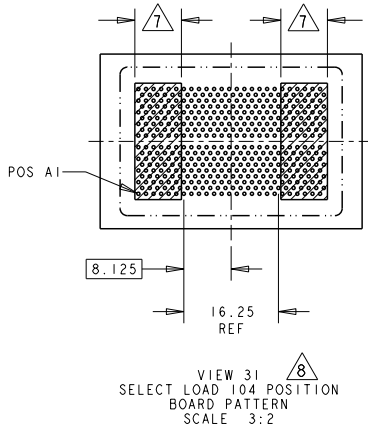
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LOC	DIST	REVISIONS				
P	LTR	DESCRIPTION	DATE	DWN	APVD	
GP	00	SEE SHEET 1				



SECTION B-B



PLUG INTERFACE  
SCALE 8:1

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DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±. 1 PLC ±0.3 2 PLC ±0.10 3 PLC ±0.050 4 PLC ±. ANGLES 32°	NAME STEP-Z, PLUG ASSEMBLY, 200 SIGNAL POSITION	RESTRICTED TO
MATERIAL -	FINISH -	PRODUCT SPEC 108-2143 APPLICATION SPEC 114-13101 WEIGHT -	SIZE CAGE CODE DRAWING NO A3 00779 C-1761614
CUSTOMER DRAWING		SCALE -	SHEET 4 OF 5 REV A5

4

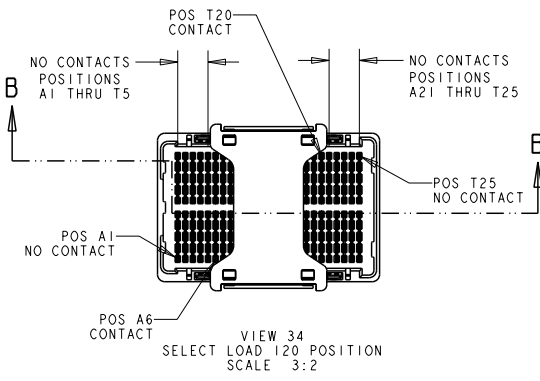
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2

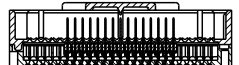
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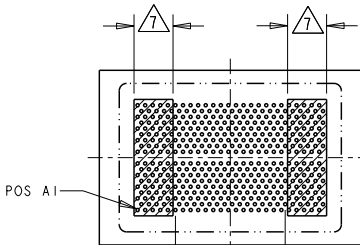
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P	LTR	DESCRIPTION	DATE	DWN	APVD	
GP	00	SEE SHEET 1	-	-	-	



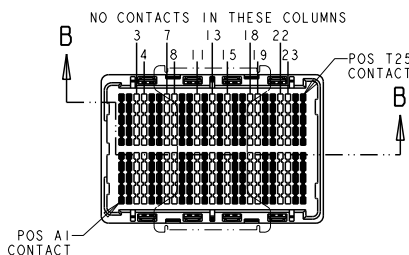
VIEW 34  
SELECT LOAD 120 POSITION  
SCALE 3:2



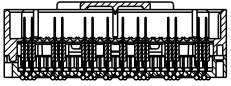
SECTION B-B



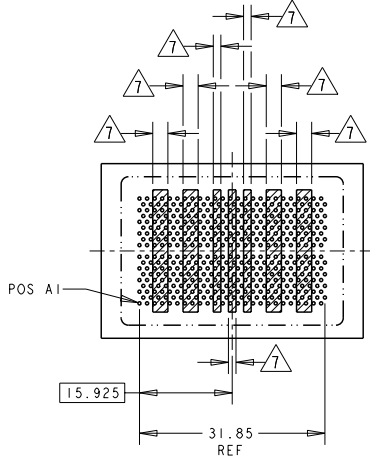
VIEW 34  
SELECT LOAD 120 POSITION  
BOARD PATTERN  
SCALE 3:2



VIEW 35  
SELECT LOAD 112 POSITION  
SCALE 3:2



SECTION B-B



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

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DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± 1 PLC ±0.3 2 PLC ±0.10 3 PLC ±0.050 4 PLC ± ANGLES ±°	NAME STEP-Z, PLUG ASSEMBLY, 200 SIGNAL POSITION	RESTRICTED TO
MATERIAL -	FINISH -	APPLICATION SPEC 108-2143 APPLICATION SPEC 114-13101	SIZE CAGE CODE DRAWING NO A3 00779 C-1761614
CUSTOMER DRAWING		SCALE -	SHEET 5 OF 5 REV A5