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RELEASED FOR PUBLICATION

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LOC

DIST

REVISIONS

DY

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P

LTR

DESCRIPTION

DATE

DWN

APVD

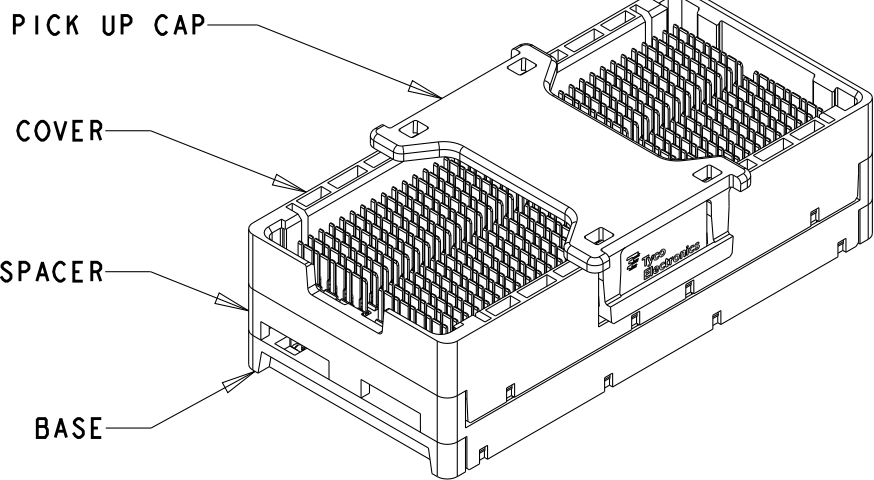
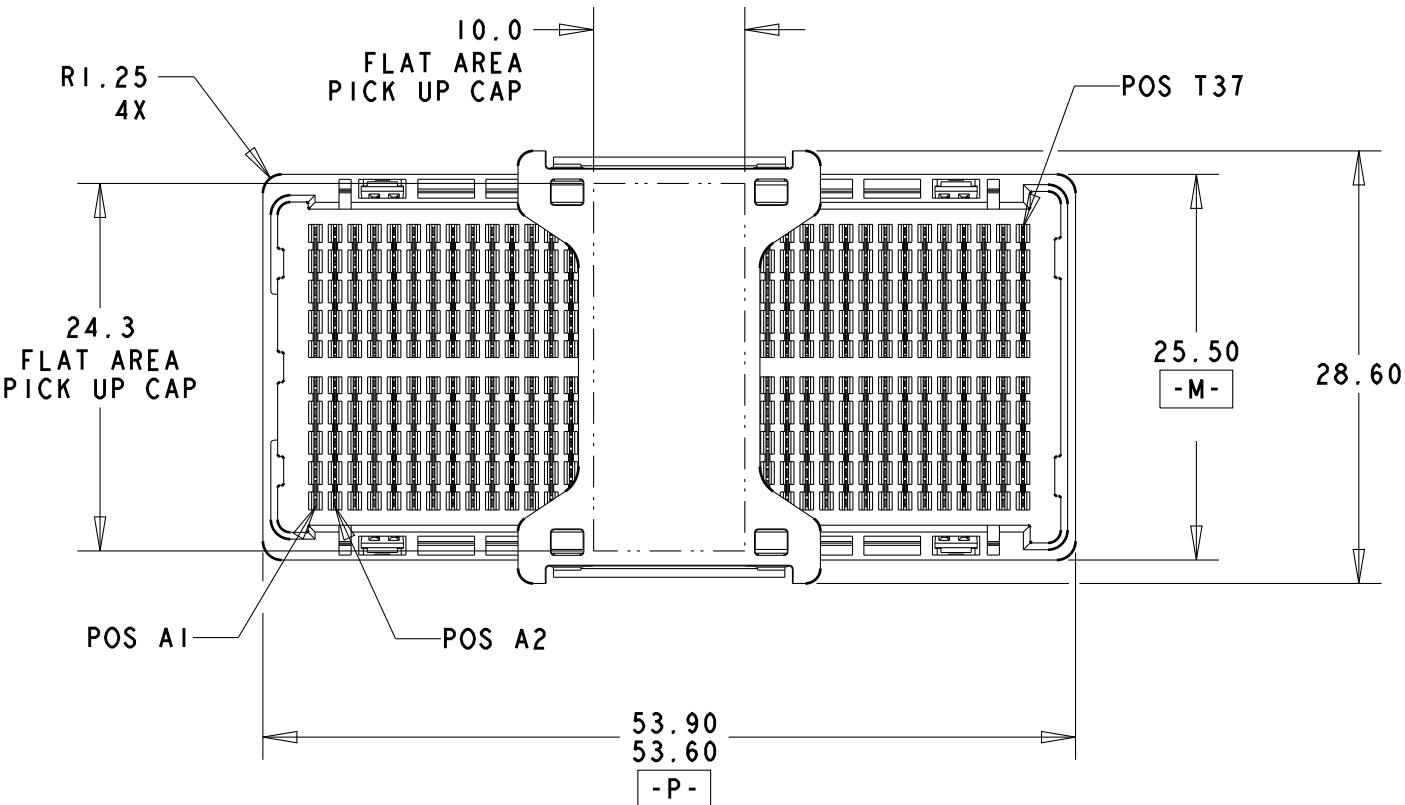
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REVISED PER ECR-10-013879

01JUL2010

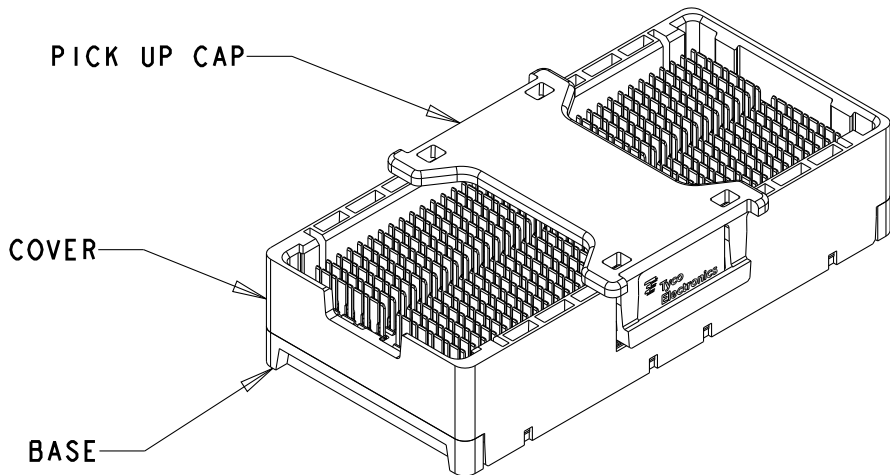
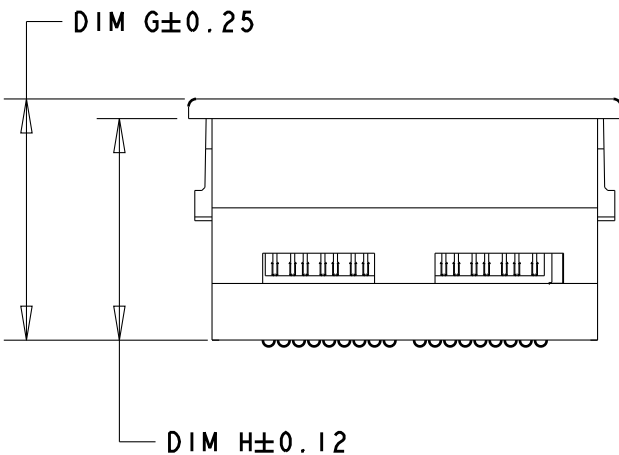
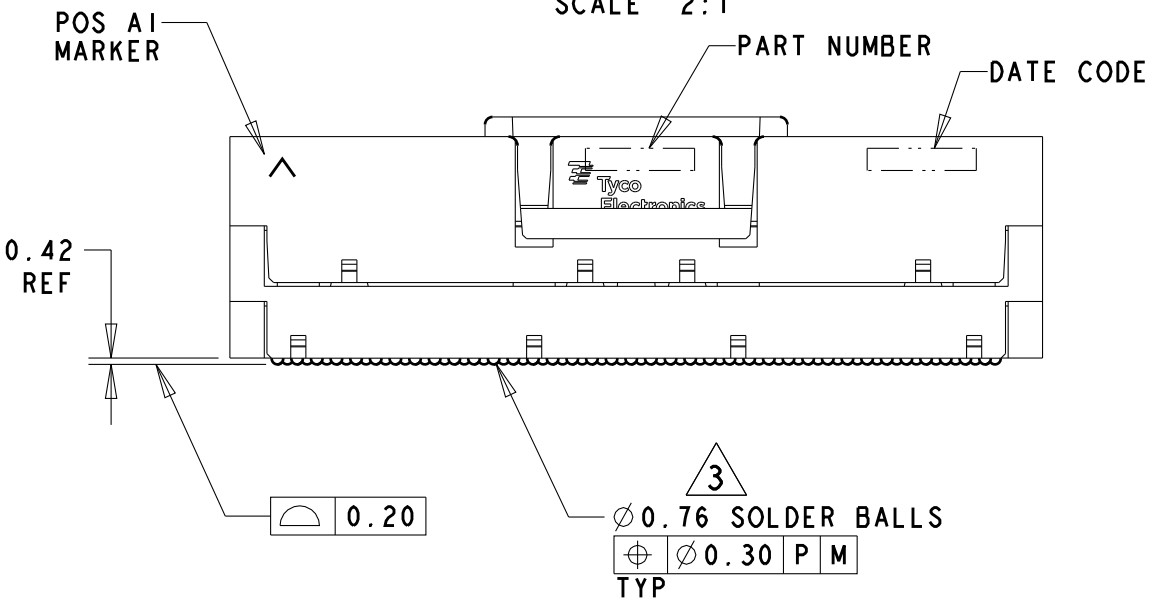
SYJ

LSF



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

TYPICAL ASSEMBLY
15mm SHOWN
SCALE 2:1



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

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.		DWN P BRANDBERG 10JAN05	 Tyco Electronics Singapore	
		CHK D WERTZ 12JAN05		
		APVD D WERTZ 12JAN05	NAME STEP-Z PLUG ASSEMBLY, 296 SIGNAL POSITION	
		PRODUCT SPEC 108-2143		
		APPLICATION SPEC 114-13101	SIZE A3	
		WEIGHT -		
		CUSTOMER DRAWING	CAGE CODE 00779	DRAWING NO C-1761616
		SCALE -	SHEET 1	OF 4
		REV A5		

LOC DY	DIST -	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 1761616-1 THRU 5-1761616-0
Sn/Ag FOR P/N 5-1761616-1 THRU 9-1761616-9
- 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.

24.65	25.95	-	25mm Sn/Ag	7-1761616-5
19.65	20.95	-	20mm Sn/Ag	7-1761616-0
14.65	15.95	-	15mm Sn/Ag	6-1761616-5
12.65	13.95	-	13mm Sn/Ag	6-1761616-3
11.65	12.95	-	12mm Sn/Ag	6-1761616-2
9.65	10.95	-	10mm Sn/Ag	6-1761616-0
24.65	25.95	-	25mm Sn/Pb	2-1761616-5
19.65	20.95	-	20mm Sn/Pb	2-1761616-0
14.65	15.95	-	15mm Sn/Pb	1-1761616-5
12.65	13.95	-	13mm Sn/Pb	1-1761616-3
11.65	12.95	-	12mm Sn/Pb	1-1761616-2
9.65	10.95	-	10mm Sn/Pb	1-1761616-0
DIM H	DIM G	LOAD STYLE	DESCRIPTION	PART NUMBER

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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 ±2°
FINISH -

MATERIAL

-

DWN
P BRANDBERG
CHK
D WERTZ
APVD
D WERTZ
PRODUCT SPEC
-
APPLICATION SPEC
-
WEIGHT
-

10 JAN 05
12 JAN 05
12 JAN 05

Tyco Electronics
Singapore

NAME
STEP-Z PLUG ASSEMBLY,
296 SIGNAL POSITION
-

SIZE
A3

CAGE CODE
00779

DRAWING NO
C-1761616

RESTRICTED TO
-

CUSTOMER DRAWING

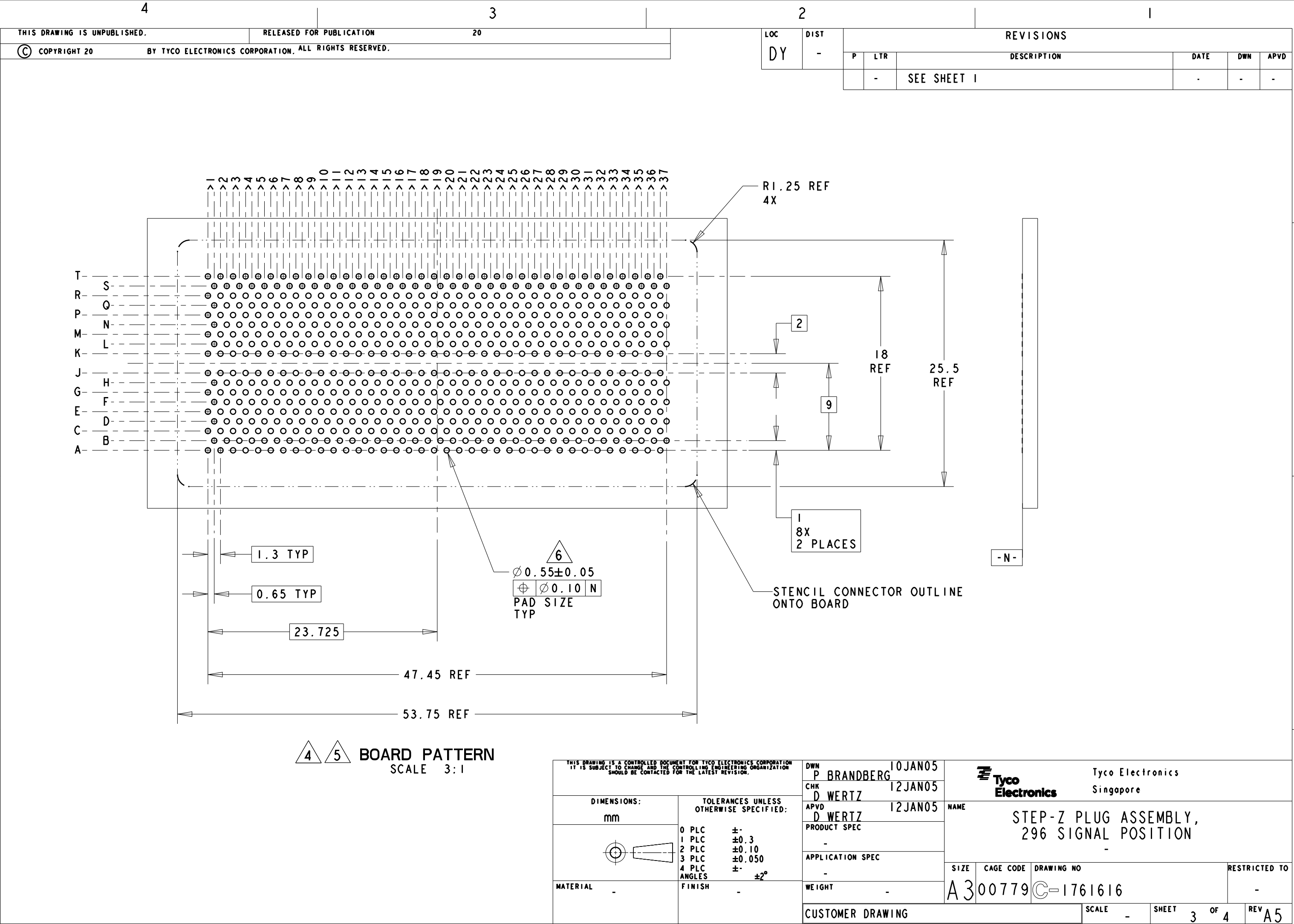
SCALE
-

SHEET
2

OF
4

REV
A5

AMP 1470-19 REV 31MAR2000



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1.3 TYP

0.65 TYP

23.725

47.45 REF

53.75 REF

6

Ø0.55±0.05

Ø0.10 N

PAD SIZE

TYP

RI.25 REF

4X

2

18 REF

25.5 REF

9

1

8X

2 PLACES

STENCIL CONNECTOR OUTLINE ONTO BOARD

- N -

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BOARD PATTERN

SCALE 3:1

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DIMENSIONS:

mm

MATERIAL

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0 PLC ±-

1 PLC ±0.3

2 PLC ±0.10

3 PLC ±0.050

4 PLC ±-

ANGLES ±2°

FINISH -

DWN

P BRANDBERG

10 JAN05

CHK

D WERTZ

12 JAN05

APVD

D WERTZ

12 JAN05

PRODUCT SPEC

-

APPLICATION SPEC

-

WEIGHT

-

CUSTOMER DRAWING

Tyco

Electronics

Tyco Electronics

Singapore

NAME

STEP-Z PLUG ASSEMBLY,
296 SIGNAL POSITION

-

SIZE

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DRAWING NO

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SCALE

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SHEET

3

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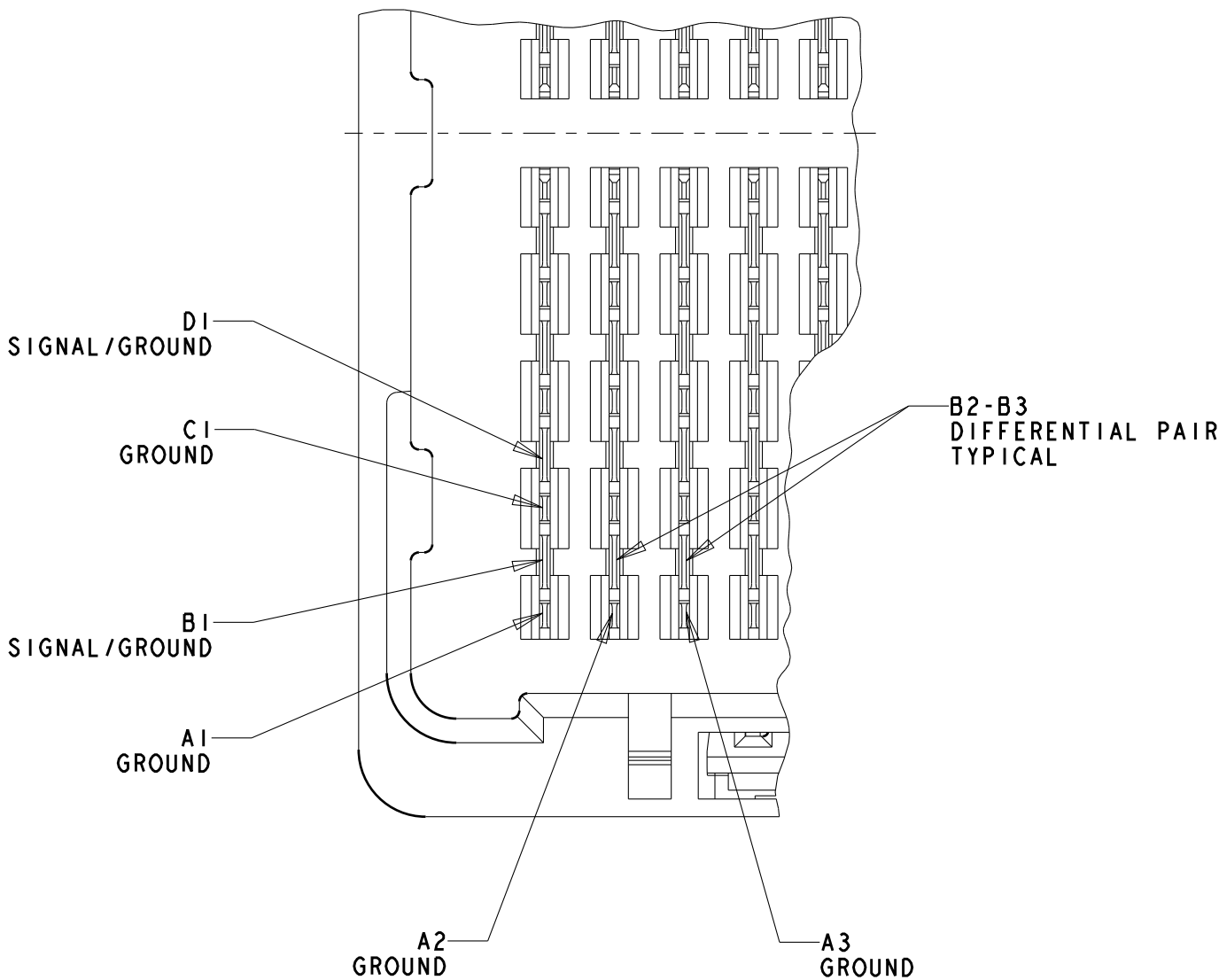
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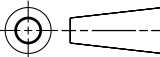
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AMP 1470-19 REV 31MAR2000

LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	APVD
DY	-		-	SEE SHEET 1	.	-



PLUG INTERFACE
SCALE 8:1

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		WEIGHT	-	A3	00779	C-1761616
MATERIAL	FINISH	CUSTOMER DRAWING			SCALE	SHEET 4 OF 4
-	-				-	REV A5