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20

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LOC

DIST

REVISIONS

DY

-

P

LTR

DESCRIPTION

DATE

DWN

APVD

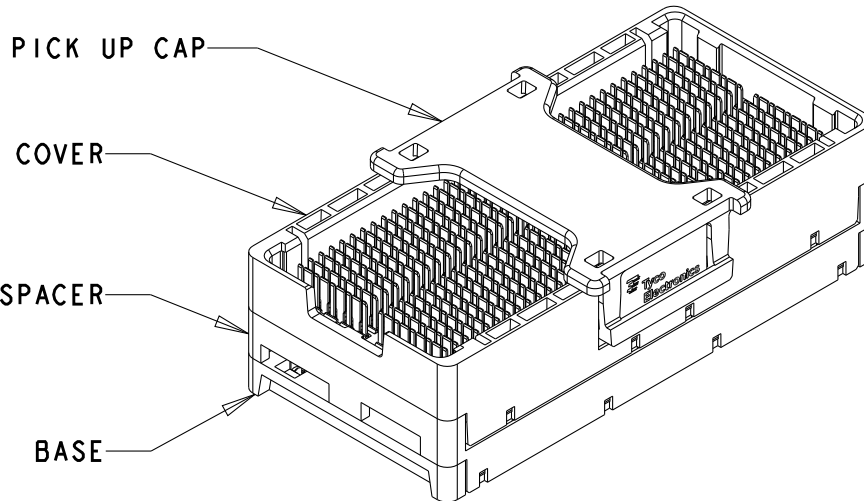
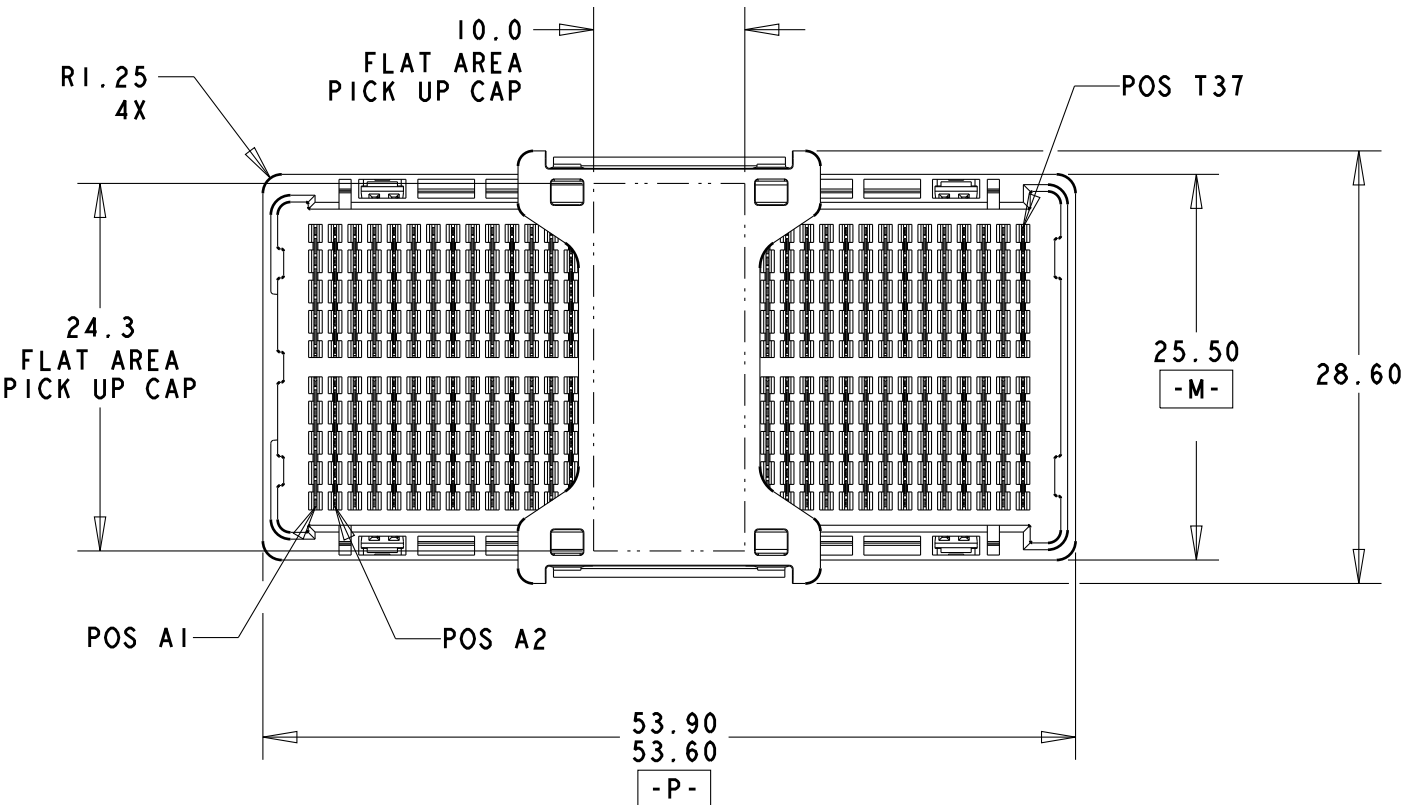
A5

REVISED PER ECR-10-013879

01JUL2010

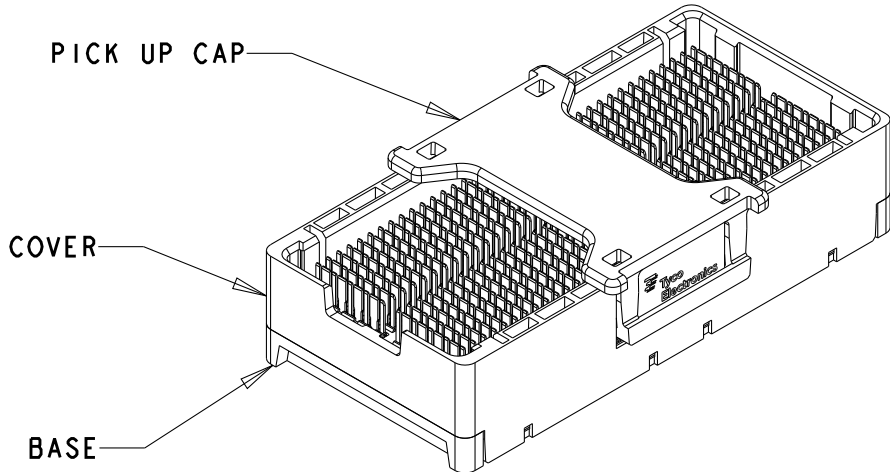
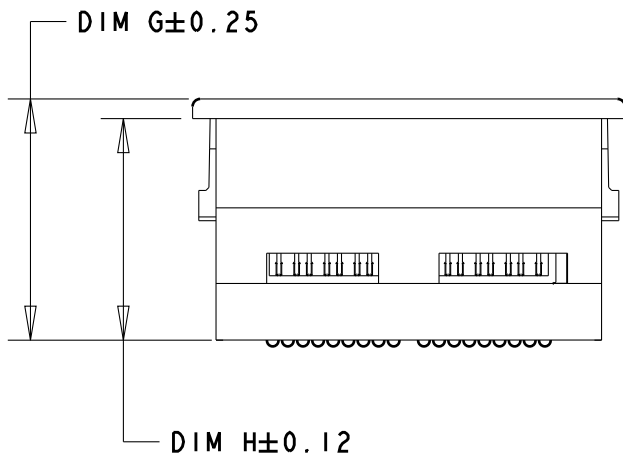
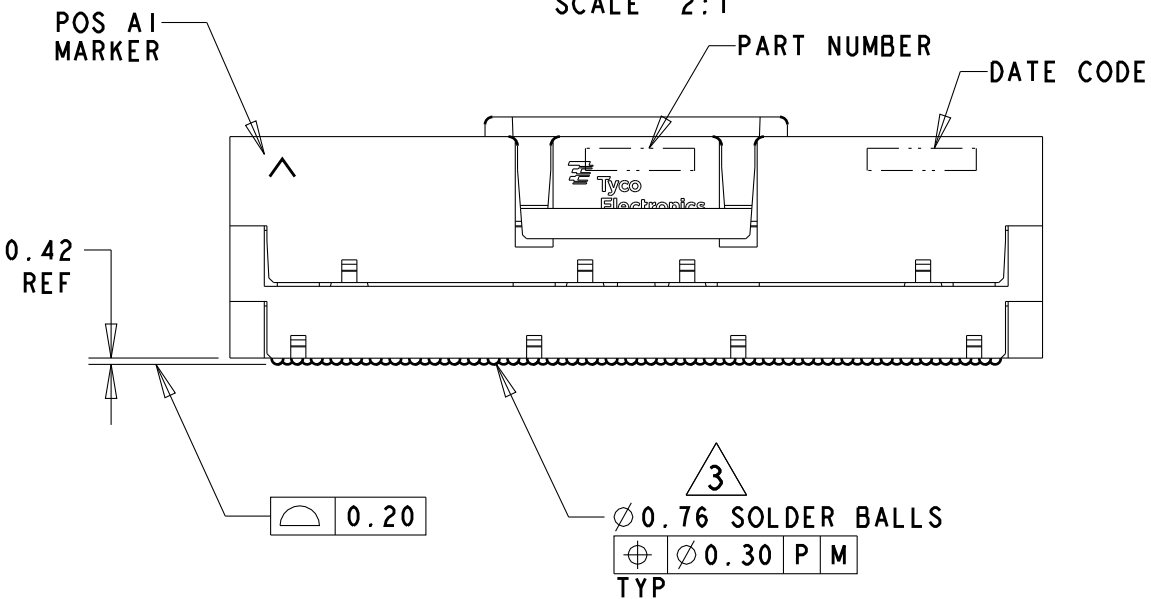
SYJ

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				
DIMENSIONS: mm		APVD D WERTZ 12JAN05	NAME STEP-Z PLUG ASSEMBLY, 296 SIGNAL POSITION -			
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.3 2 PLC ±0.10 3 PLC ±0.050 4 PLC ±- ANGLES ±2°		PRODUCT SPEC 108-2143				
MATERIAL 		APPLICATION SPEC 114-13101	SIZE A3	CAGE CODE 00779	DRAWING NO C-1761616	RESTRICTED TO -
FINISH 		WEIGHT -	CUSTOMER DRAWING			
			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

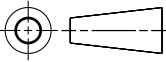
SPECIFIED POSITIONAL TOLERANCE DEFINES PAD TO PAD
LOCATION WITHIN LAND PATTERN. POSITIONAL TOLERANCE
OF LAND PATTERN TO FUDICIAL MARKS OR PCB DATUMS
SHALL BE DEFINED BY CUSTOMER. FOR RECOMMENDED
PRODUCT APPLICATION AND PCB DESIGN DETAILS, SEE
APPLICATION SPEC 114-13101.

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 JAN05
12 JAN05
12 JAN05

Tyco Electronics
Singapore

NAME
STEP-Z PLUG ASSEMBLY,
296 SIGNAL POSITION
-

SIZE
A3

CAGE CODE
00779

DRAWING NO
C-1761616

RESTRICTED TO
-

CUSTOMER DRAWING

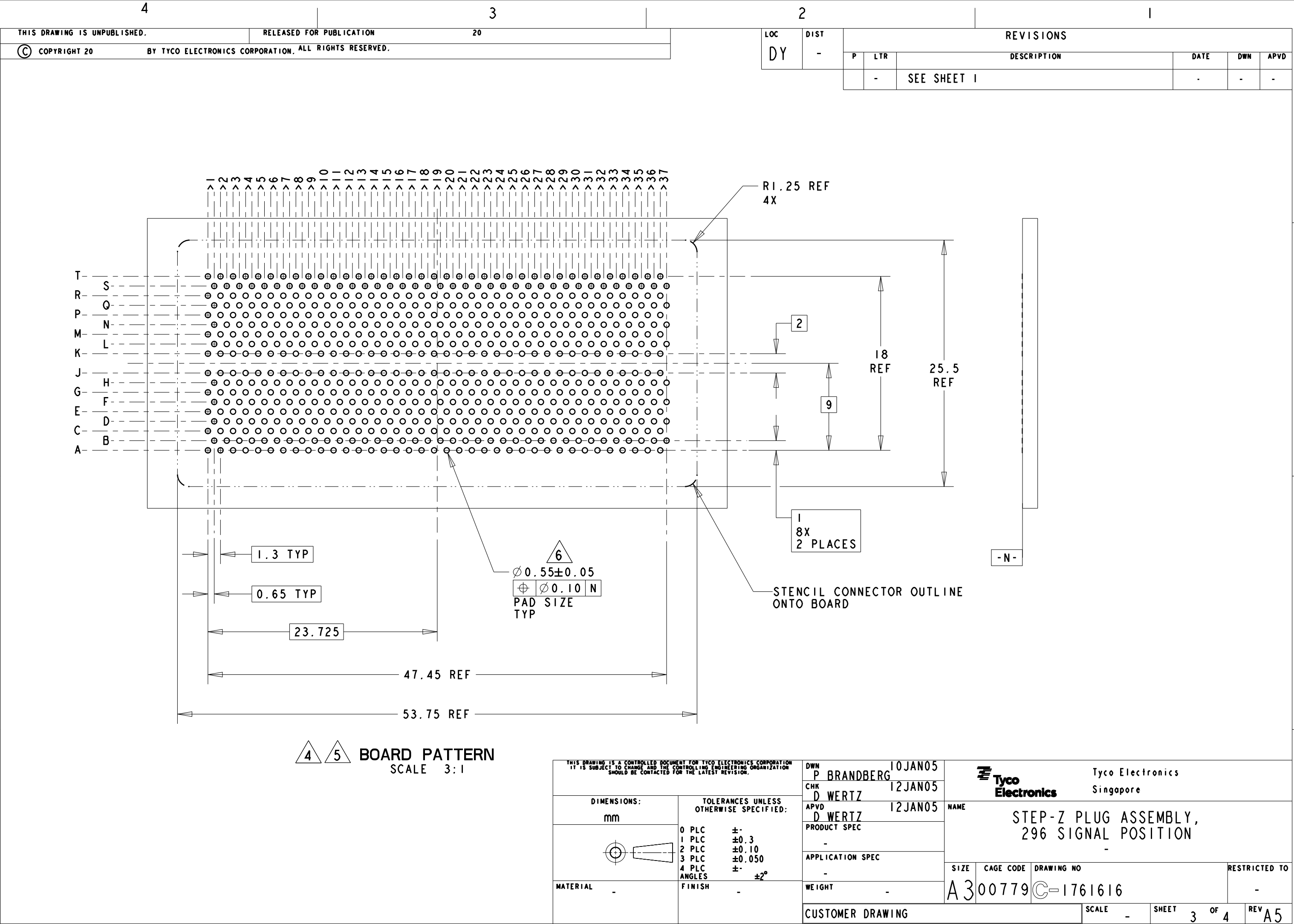
SCALE
-

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

0.55±0.05

0.10

N

PAD SIZE

TYP

RI.25 REF

4X

18 REF

25.5 REF

1

8X

2 PLACES

STENCIL CONNECTOR OUTLINE ONTO BOARD

- N -

4

5

BOARD PATTERN

SCALE 3:1

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DIMENSIONS:

mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC

±

0.3

1 PLC

±

0.10

2 PLC

±

0.050

3 PLC

±

0.050

4 PLC

±

0.050

ANGLES

±

2°

FINISH

-

MATERIAL

-

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

A3

CAGE CODE

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DRAWING NO

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RESTRICTED TO

-

SCALE

-

SHEET

3

OF

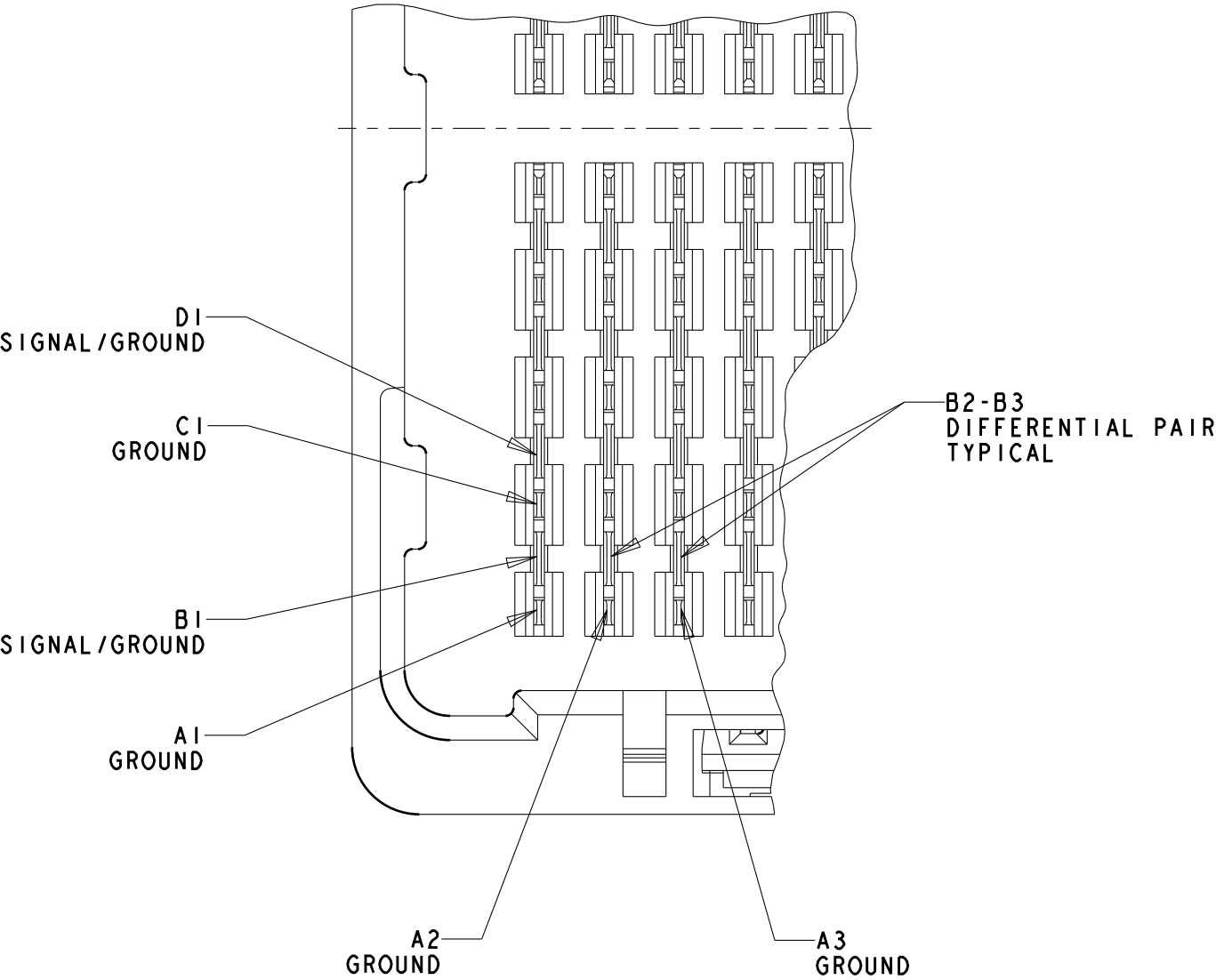
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REV

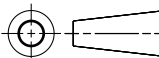
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AMP 1470-19 REV 31MAR2000

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



PLUG INTERFACE
SCALE 8:1

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MATERIAL -	FINISH -	APPLICATION SPEC -	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO -
		WEIGHT -	A3	00779	C-1761616	
CUSTOMER DRAWING			SCALE -	SHEET 4	OF 4	REV A5