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RELEASED FOR PUBLICATION

20

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LOC

DIST

REVISIONS

DY

-

P

LTR

DESCRIPTION

DATE

DWN

APVD

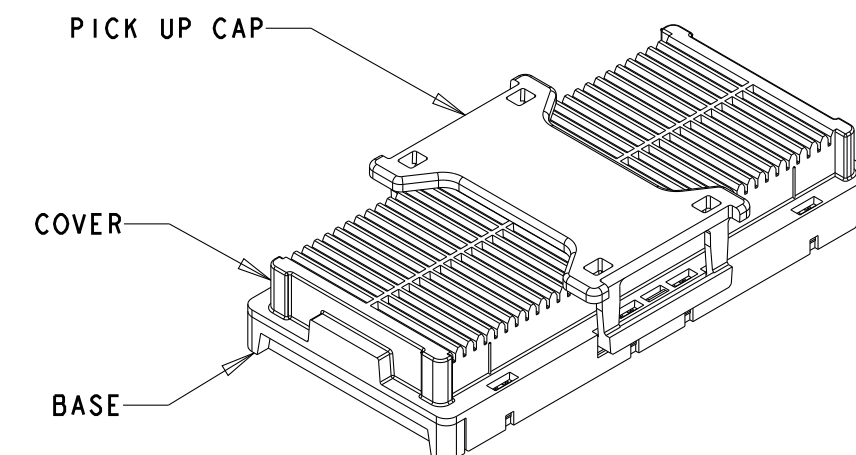
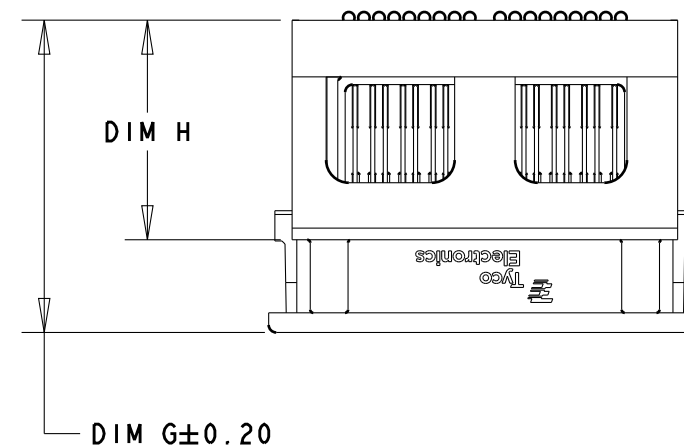
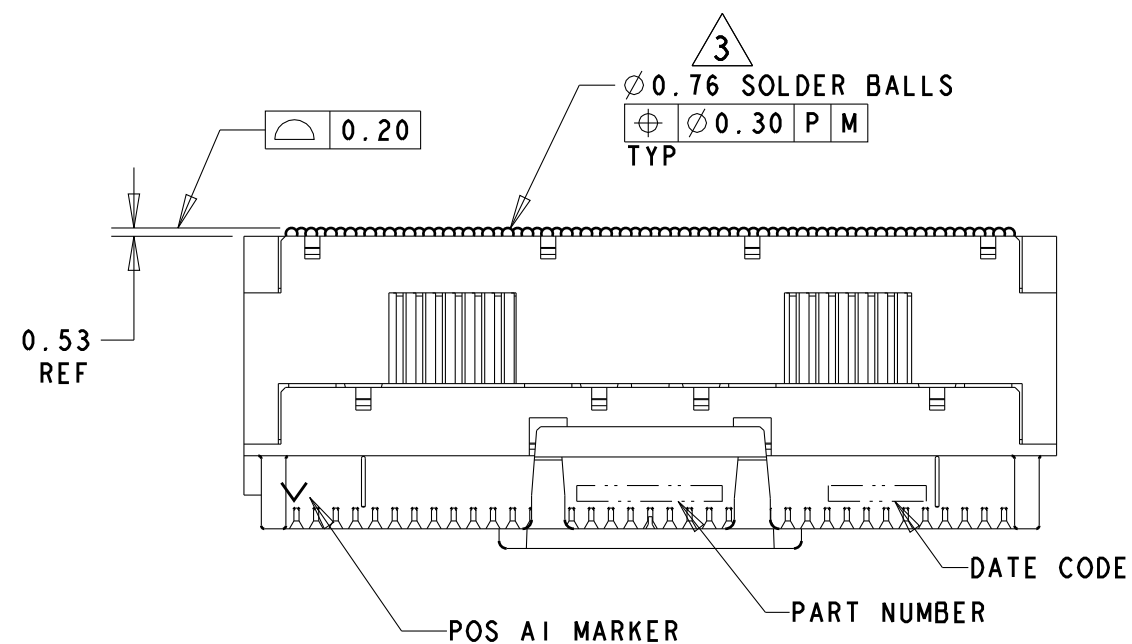
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REVISED PER ECR-10-013879

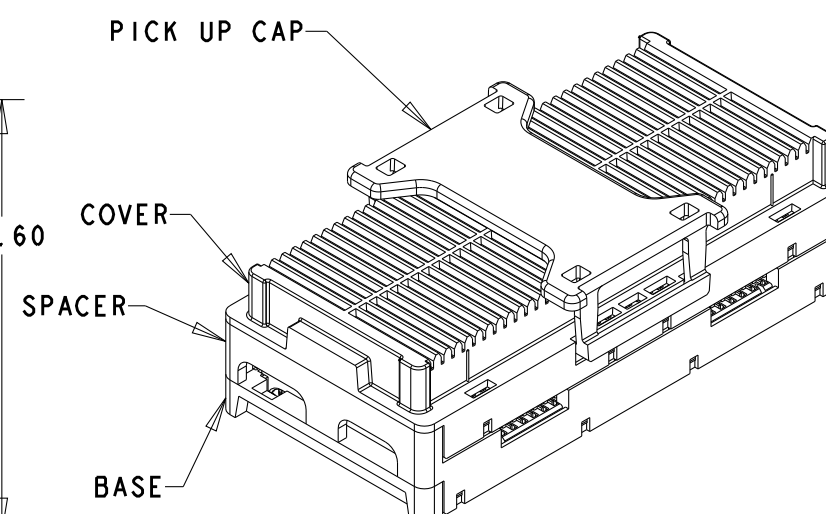
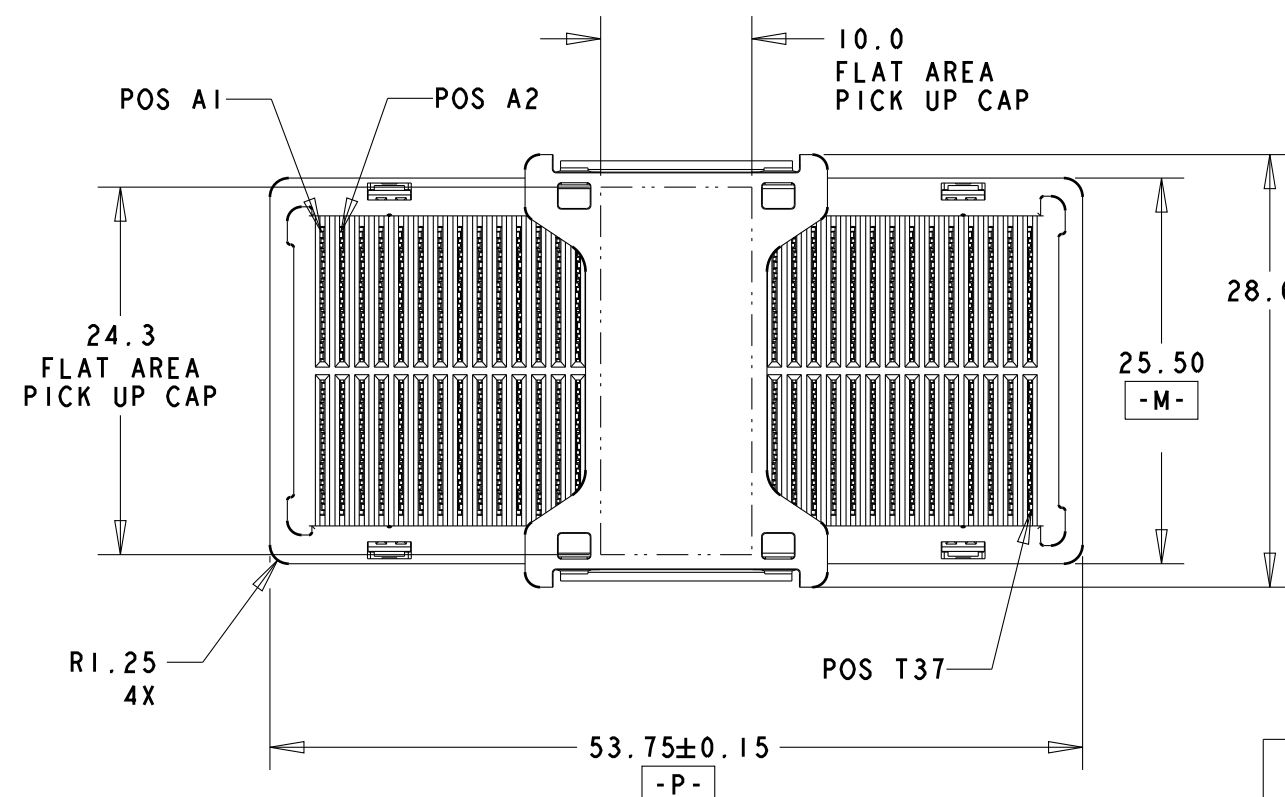
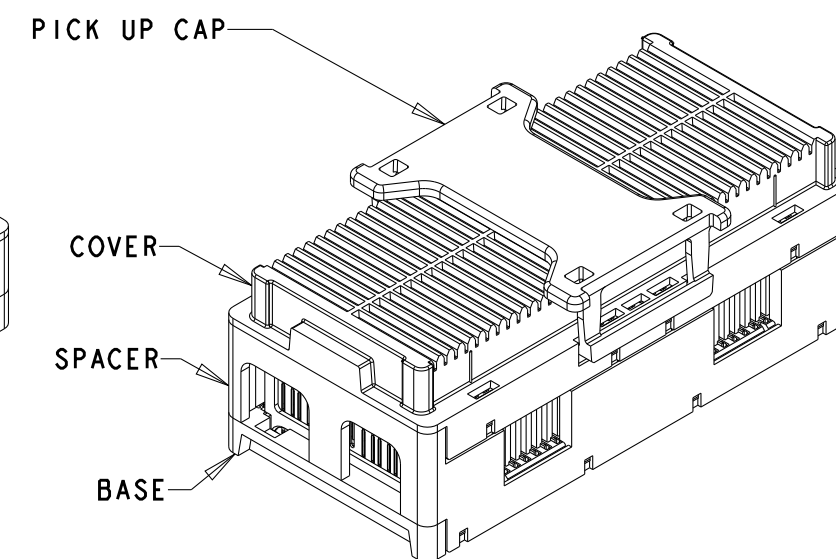
01JUL2010

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LSF

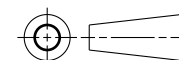


TYPICAL ASSEMBLY

15mm SHOWN
SCALE 2:1ISOMETRIC VIEW
TYPICAL CONFIGURATION
FOR 5mm ASSEMBLY
SCALE 3:2ISOMETRIC VIEW
TYPICAL CONFIGURATION
FOR 11mm ASSEMBLY
SCALE 3:2ISOMETRIC VIEW
TYPICAL CONFIGURATION
FOR 15mm ASSEMBLY
SCALE 3:2THIS DRAWING IS A CONTROLLED DOCUMENT FOR TYCO ELECTRONICS CORPORATION
IT IS SUBJECT TO CHANGE AND THE CONTROLLING ENGINEERING ORGANIZATION
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DIMENSIONS:

mm

TOLERANCES UNLESS
OTHERWISE SPECIFIED:

MATERIAL

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

DWN 11 JAN 05

P BRANDBERG

CHK 12 JAN 05

D WERTZ

APVD 12 JAN 05

D WERTZ

PRODUCT SPEC

108-2143

APPLICATION SPEC

114-13101

WEIGHT

CUSTOMER DRAWING

Tyco Electronics
Singapore

NAME

STEP-Z RECEPTACLE ASSEMBLY,
296 SIGNAL POSITION

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A300779

C-1761617

SCALE

SHEET

OF

REV

-

1

4

B4

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 1761617-1 THRU 5-1761617-0
Sn/Ag FOR P/N 5-1761617-1 THRU 9-1761617-9

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 ROWS J & K ARE TIED
TOGETHER [COMMONED]).

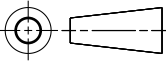
5 CONTACTS IN ROWS B,D,F,H,L,N,O, AND S
ARE DUAL BEAM CONTACTS,
TYPICALLY USED AS SIGNAL PINS.

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.

14.51	20.65	-	15mm Sn/Ag	6-1761617-5
10.51	16.65	-	11mm Sn/Ag	6-1761617-1
4.51	10.65	-	5mm Sn/Ag	5-1761617-5
14.51	20.65	-	15mm Sn/Pb	1-1761617-5
10.51	16.65	-	11mm Sn/Pb	1-1761617-1
4.51	10.65	-	5mm Sn/Pb	1761617-5
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 11 JAN05
CHK
D WERTZ 12 JAN05
APVD
D WERTZ 12 JAN05
PRODUCT SPEC
-
APPLICATION SPEC
-
WEIGHT -

NAME
STEP-Z RECEPTACLE ASSEMBLY,
296 SIGNAL POSITION
-

SIZE
A3

CAGE CODE
00779

DRAWING NO
C-1761617

RESTRICTED TO
-

CUSTOMER DRAWING

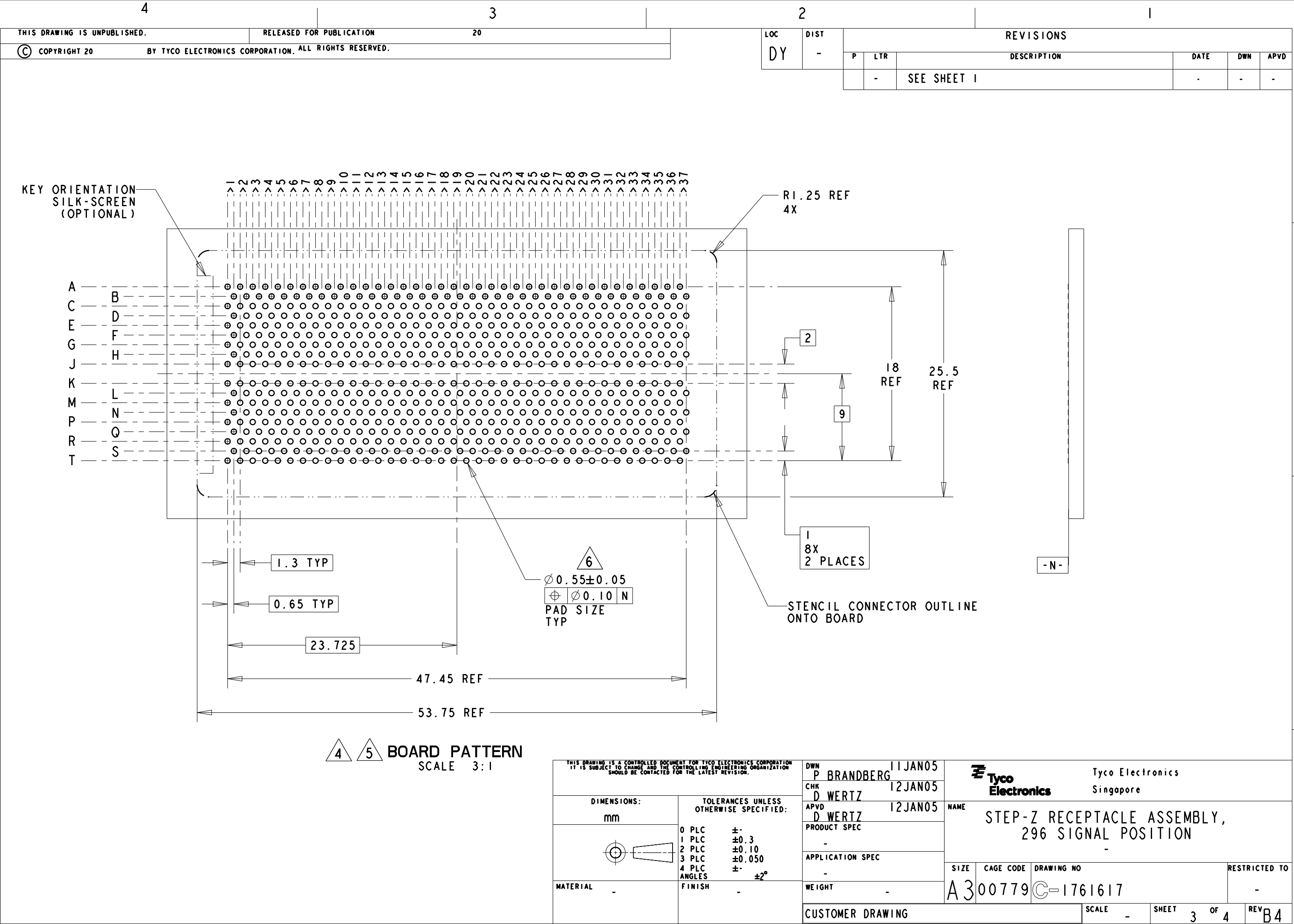
SCALE -

SHEET 2 OF 4

REV B4

 Tyco Electronics
Singapore

AMP 1470-19 REV 31MAR2000



KEY ORIENTATION
SILK-SCREEN
(OPTIONAL)

A

C

E

G

J

K

M

P

R

T

B

D

F

H

L

N

Q

S

1

2

3

4

5

6

7

8

9

10

11

12

13

14

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16

17

18

19

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30

31

32

33

34

35

36

37

1.3 TYP

0.65 TYP

23.725

47.45 REF

53.75 REF

6

Ø 0.55±0.05

Ø 0.10 N

PAD SIZE
TYP

1

8X

2 PLACES

2

9

18 REF

25.5 REF

RI .25 REF
4X

STENCIL CONNECTOR OUTLINE
ONTO BOARD

- N -

4

5

BOARD PATTERN

SCALE 3:1

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2 PLC ±0.10

3 PLC ±0.050

4 PLC ±

ANGLES ±2°

FINISH

MATERIAL

-

DWN

P BRANDBERG

11 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 RECEPTACLE ASSEMBLY,
296 SIGNAL POSITION

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SIZE

A3

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SCALE

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SHEET

3

OF

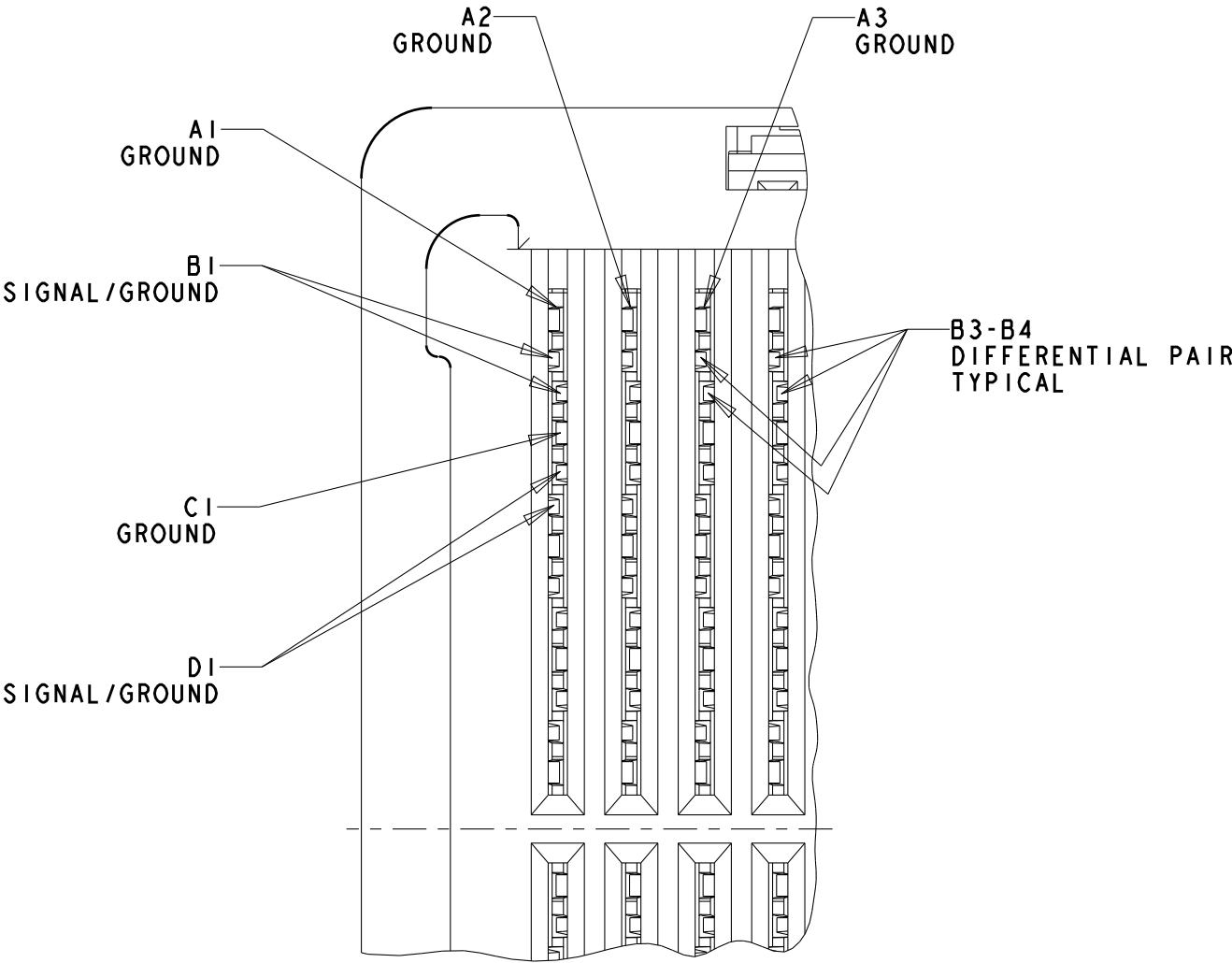
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REV

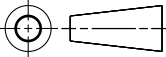
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AMP 1470-19 REV 31MAR2000

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



RECEPTACLE INTERFACE
SCALE 8:1

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		CHK D WERTZ12 JAN05			
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME STEP-Z RECEPTACLE ASSEMBLY, 296 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-1761617	
				RESTRICTED TO -	
CUSTOMER DRAWING				SCALE -	
				SHEET 4 OF 4	
				REV B4	