

4

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1

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RELEASED FOR PUBLICATION

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LOC

DIST

REVISIONS

DY

-

P

LTR

DESCRIPTION

DATE

DWN

APVD

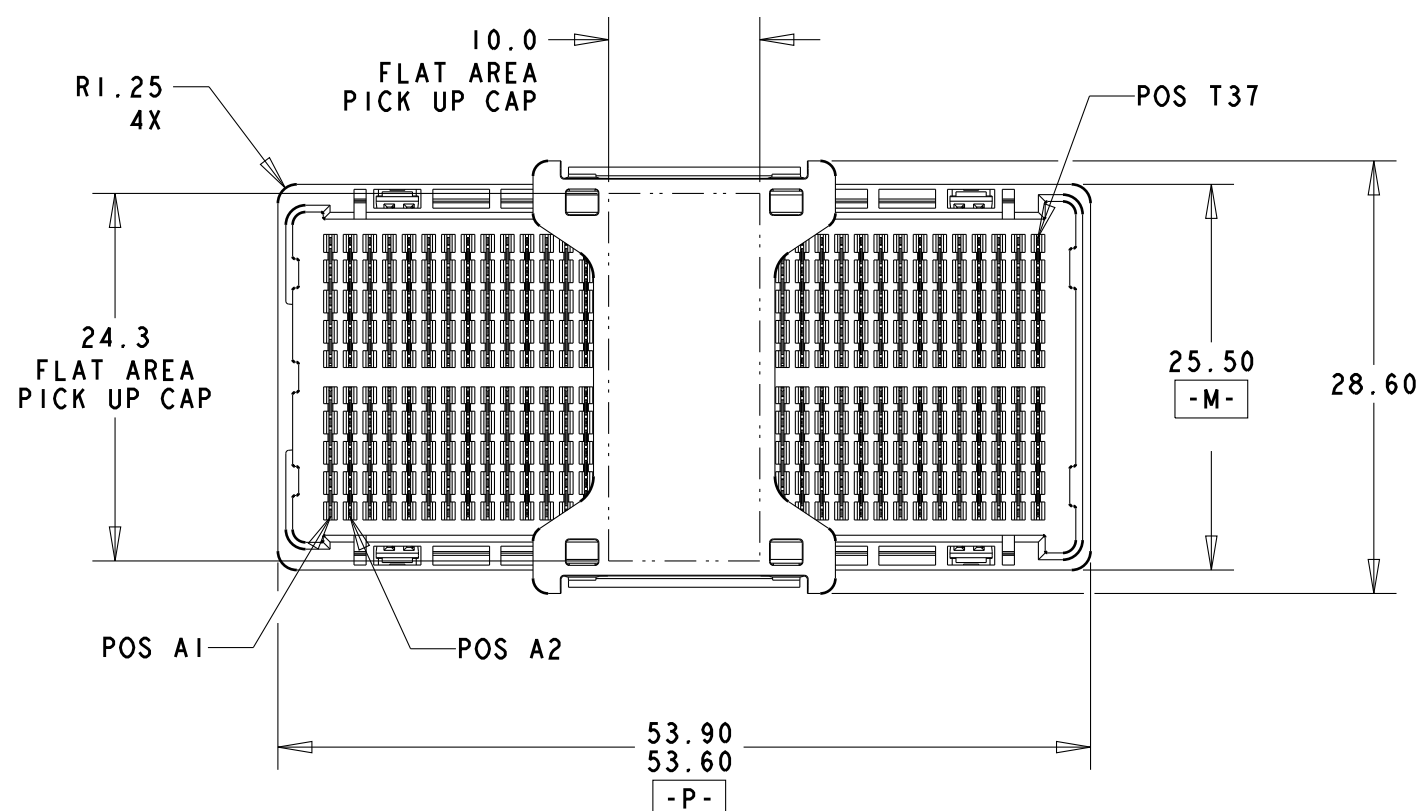
A5

REVISED PER ECR-10-013879

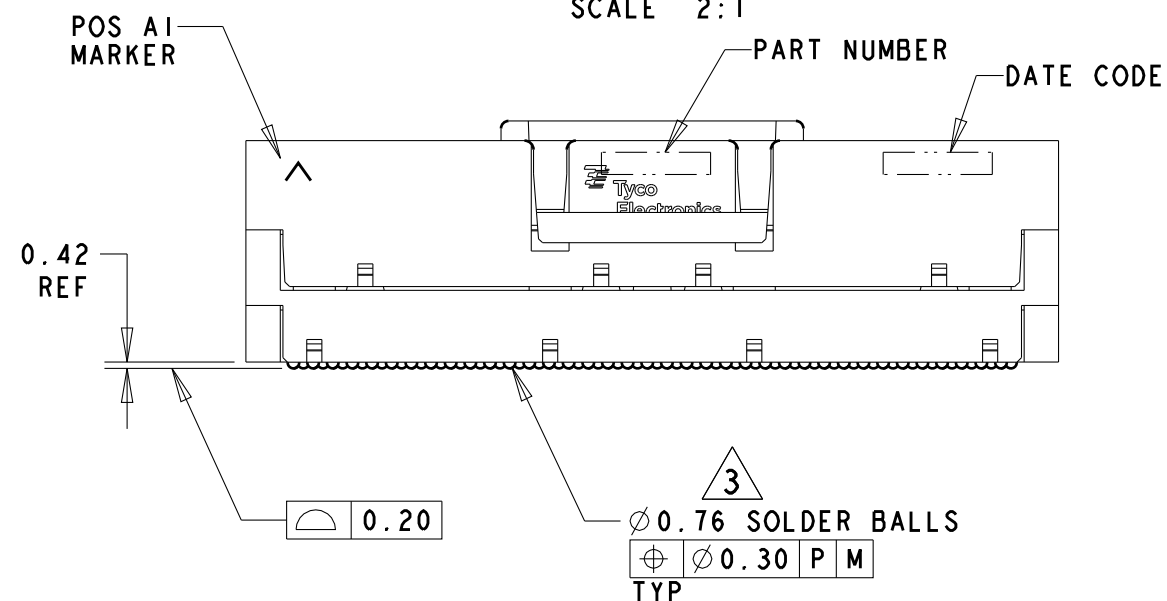
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SYJ

LSF



## TYPICAL ASSEMBLY

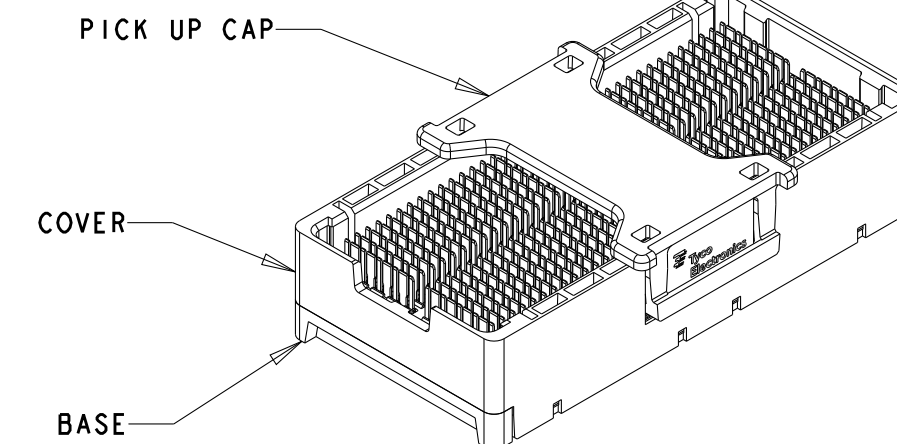
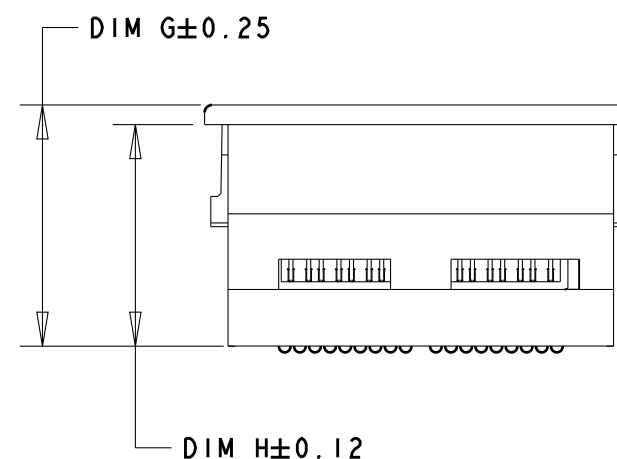
15mm SHOWN  
SCALE 2:1

PICK UP CAP

COVER

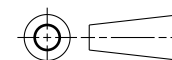
SPACER

BASE

ISOMETRIC VIEW  
TYPICAL CONFIGURATION FOR  
15mm & 20mm ASSEMBLY  
SCALE 3:2ISOMETRIC VIEW  
TYPICAL CONFIGURATION FOR  
10mm, 12mm & 13mm ASSEMBLY  
SCALE 3:2THIS DRAWING IS A CONTROLLED DOCUMENT FOR TYCO ELECTRONICS CORPORATION  
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DIMENSIONS:

mm



MATERIAL

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:0 PLC ±  
1 PLC ±0.3  
2 PLC ±0.10  
3 PLC ±0.050  
4 PLC ±  
ANGLES ±2°

FINISH



DWN P BRANDBERG 10JAN05

CHK D WERTZ 12JAN05

APVD D WERTZ 12JAN05

PRODUCT SPEC

108-2143

APPLICATION SPEC

114-13101

WEIGHT -

CUSTOMER DRAWING

Tyco Electronics  
Singapore

NAME

STEP-Z PLUG ASSEMBLY,  
296 SIGNAL POSITION

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A3

00779

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

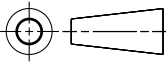
SPECIFIED POSITIONAL TOLERANCE DEFINES PAD TO PAD  
LOCATION WITHIN LAND PATTERN. POSITIONAL TOLERANCE  
OF LAND PATTERN TO FUDICIAL MARKS OR PCB DATUMS  
SHALL BE DEFINED BY CUSTOMER. FOR RECOMMENDED  
PRODUCT APPLICATION AND PCB DESIGN DETAILS, SEE  
APPLICATION SPEC 114-13101.

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 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

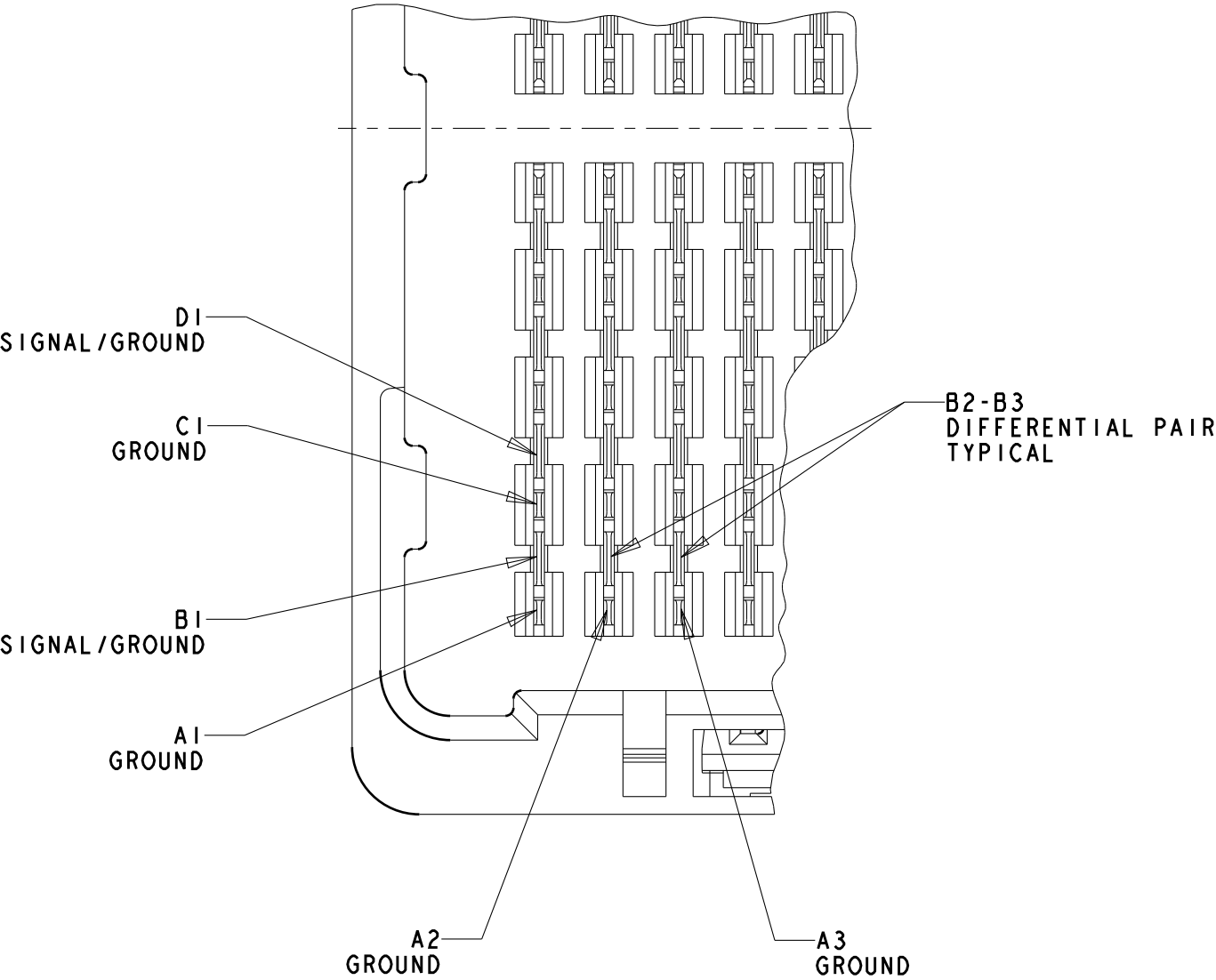
OF  
4

REV  
A5


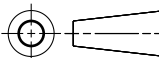
AMP 1470-19 REV 31MAR2000



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



PLUG INTERFACE  
SCALE 8:1

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		CHK D WERTZ 12 JAN05				
DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD D WERTZ 12 JAN05	NAME STEP-Z PLUG ASSEMBLY, 296 SIGNAL POSITION -			
	0 PLC ± 1 PLC ±0.3 2 PLC ±0.10 3 PLC ±0.050 4 PLC ± ANGLES ±2°	PRODUCT SPEC -				
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

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