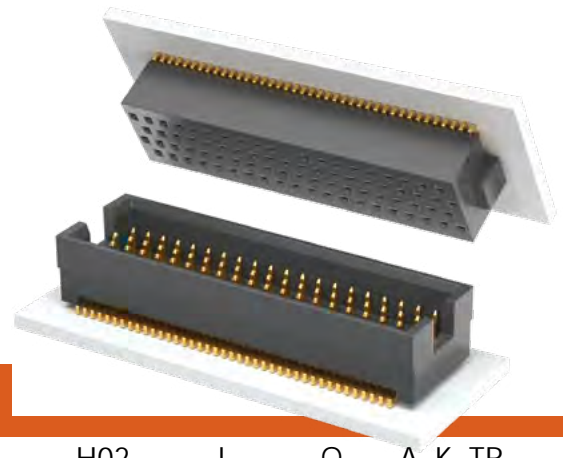


# WORLDPO



## 1.27 mm PITCH • WTOLC/WSOLC SERIES

### WTOLC

Mates:  
WSOLC

### WSOLC

Mates:  
WTOLC

### SPECIFICATIONS

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Contact Material:**  
Phosphor Bronze  
**Plating:**  
Au over 50 μ" (1.27 μm) Ni  
**Current Rating:**  
2.4 A per pin  
(6 adjacent pins powered)  
**Operating Temp Range:**  
-55 °C to +125 °C  
**Insertion Depth (WSOLC):**  
1.68 mm to  
3.61 mm with  
0.38 mm wipe  
**Max Cycles (WSOLC):**  
100+

### PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
0.10 mm max (05-35)  
0.15 mm max (40-50)  
stencil solution  
may be available;

|       |   |    |                 |            |                |   |              |
|-------|---|----|-----------------|------------|----------------|---|--------------|
| WTOLC | - | 4X | 05              | H02        | L              | Q | A K TR       |
| WTOLC | - | 4X | NO.PINS PER ROW | LEAD STYLE | PLATING OPTION | Q | OTHER OPTION |

05, 10, 15, 20, 25,  
30, 35, 40, 45, 50  
(Standard Sizes)

Specify  
LEAD  
STYLE  
from  
chart

**F**  
= Gold flash  
on contact,  
Gold flash  
on tail

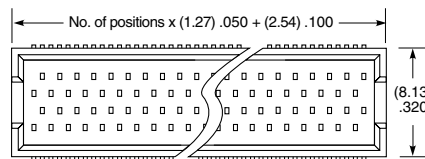
**L**  
= 10 μ"  
(0.25 μm)  
Gold on  
contact,  
Gold flash  
on tail

**A**  
= Alignment Pin  
(N/A with LC)

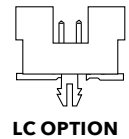
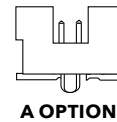
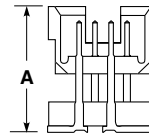
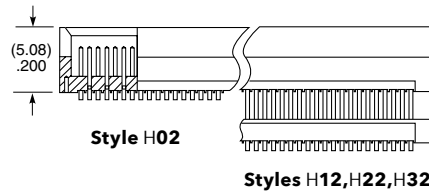
**LC**  
= Locking Clip  
(N/A with A)  
(Manual  
placement required)

**K**  
= (9.00 mm) .354" DIA  
Polyimide film  
Pick & Place Pad

**TR**  
= Tape & Reel



| LEAD STYLE | A            | MATED HEIGHT |
|------------|--------------|--------------|
| H02        | (5.59) .220  | (6.35) .250  |
| H12        | (7.24) .285  | (8.00) .315  |
| H22        | (9.25) .364  | (10.00) .394 |
| H32        | (11.23) .442 | (12.00) .472 |



|       |   |    |                 |     |                |   |              |
|-------|---|----|-----------------|-----|----------------|---|--------------|
| WSOLC | - | 4X | 05              | H02 | L              | Q | A K TR       |
| WSOLC | - | 4X | NO.PINS PER ROW | H02 | PLATING OPTION | Q | OTHER OPTION |

05, 10, 15, 20, 25,  
30, 35, 40, 45, 50  
(Standard Sizes)

**F**  
= Gold flash  
on contact,  
Gold flash  
on tail

**L**  
= 10 μ" (0.25 μm)  
Gold on contact,  
Gold flash  
on tail

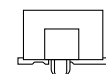
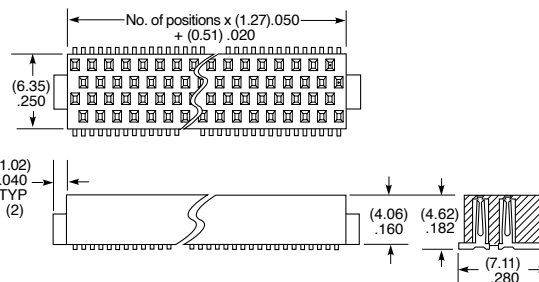
**A**  
= Alignment Pin  
(N/A with LC)

**LC**  
= Locking Clip  
(N/A with A)  
(Manual  
placement required)

**K**  
= (7.00 mm) .276" DIA  
Polyimide film  
Pick & Place Pad

**P**  
= Pick & Place Pad

**TR**  
= Tape & Reel



A OPTION



LC OPTION



P OPTION

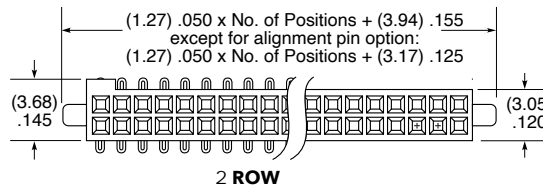
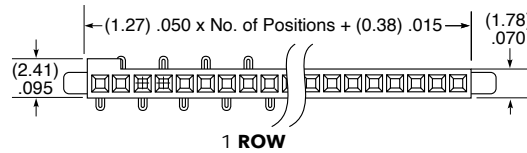
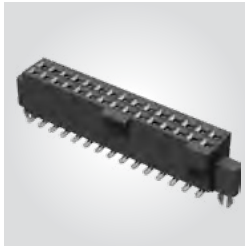
**Note:**  
Some lengths, styles and  
options are non-standard,  
non-returnable.

1.27 mm PITCH • SMT/THROUGH-HOLE SOCKET

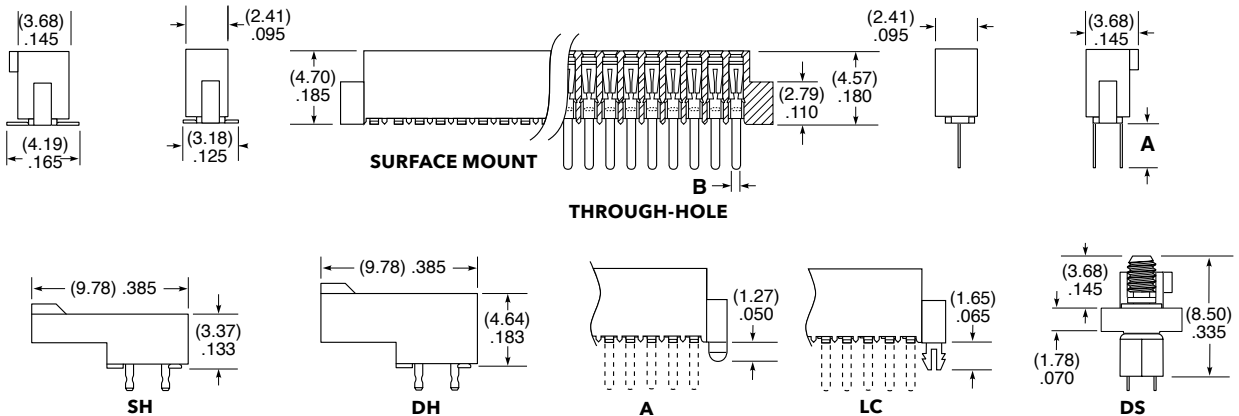
| WSFM - 2                  | 05                | HL2   | L  | D  | A   |  |  |  |
|---------------------------|-------------------|---|--|--|---|--|--|--|
| SERIES                    | 2                 | NO. PINS PER ROW  | LEAD STYLE   | PLATING OPTION   | ROW OPTION  | OPTIONS  |  |  |
| <b>WSFM</b><br>= Standard | <b>1,2</b><br>Row | <b>03, 04, 06, 08</b><br>(WSFM only)                                  | (Surface Mount) (Through-hole)   | <b>L</b><br>= 10 μ"  | <b>D</b>  | Specify only A, LC or DS (Not available with DH, SH)   | Specify only K or P (Lead styles H02, HL2, HT2 only)   |  |
| <b>WSFML</b><br>= Locking |                   | <b>05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50</b><br>(Standard sizes) | <b>H02</b><br>Contact (BeCu)<br><b>HL2</b><br>= Low Insertion Force Contact (BeCu)<br><b>HT2</b><br>LITE Contact (Phosphor Bronze) | <b>H01, H03</b><br>Contact (BeCu)<br><b>HL1, HL3</b><br>= Low Insertion Force Contact (BeCu)<br><b>HT1</b><br>LITE Contact (Phosphor Bronze) | <b>S</b><br>= 30 μ"<br>Gold on contact, Matte Tin on tail | <b>SH</b><br>= Single Horizontal (05 thru 30 positions only) (WSFM only) (Lead style H02 only)<br><b>DH</b><br>= Double Horizontal (05 thru 30 positions only) (WSFM only) (Lead style H02 only) | <b>A</b><br>= Alignment Pin<br><b>LC</b><br>= Locking Clip (Manual placement required)<br><b>DS</b><br>= Dual Screw Down for (1.60 mm) .062" PCB (05 thru 40 positions only) (Lead styles H01, H02 & H03 only) (Requires D row option) (Not available with WSFML) (Mates with WTFM DS option) (Not available with A, LC, K, P, XR) | <b>K</b><br>= Polyimide film Pick & Place Pad (Not available with DH, -SH)<br><b>P</b><br>= Plastic Pick & Place Pad (Not available with DH, SH)<br>Specify TR or FR last; Required for DH & SH. (Lead styles H02, HL2 & HT2 only)<br><b>TR</b><br>= Tape & Reel |

**WSFM**  
Board Mates:  
WTFM  
Cable Mates:  
WTFSD, WTFSS

**WSFML**  
Board Mates:  
WTFML  
Cable Mates:  
WTFSD



| LEAD STYLE    | A           | B           |
|---------------|-------------|-------------|
| H01, HL1, HT1 | (3.05) .120 | (0.51) .020 |
| H03, HL3      | (1.91) .075 | (0.41) .016 |



## 1.27 mm • SMT/THROUGH-HOLE HEADER

| WTFM - 2 | 10               | H02        | S              | D          | LC      |
|----------|------------------|------------|----------------|------------|---------|
| SERIES   | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | ROW OPTION | OPTIONS |

**WTFM**  
= Standard

**WTFML**  
= Locking  
(H01 & H02  
lead style  
only)

1,2  
Row

**03, 04,  
06, 08**  
(WTFM H01 &  
H02 only)

**05, 07,  
10, 15, 20,  
25, 30, 35,  
40, 45, 50**  
(Standard sizes)

Specify  
**LEAD  
STYLE**  
from  
chart

**L**  
= 15 μ"  
(0.38 μm)  
Gold on post,  
Matte Tin on tail

**S**  
= 30 μ"  
Gold on  
contact,  
Matte Tin  
on tail

**D**

**DH\***  
= Double  
Horizontal  
(WTFM lead  
style H02 only  
(05 thru 50  
positions only)  
(TR  
option only  
available)

Specify only RA,  
RE1 or RE2

**RA**  
= Right-angle  
(Lead style  
H01 only)

**RE1**  
= Right-angle  
Elevated for  
(1.60 mm) .062" PCB  
(Requires WTFM  
lead style H01,  
D row and WT)

**RE2**  
= Right-angle  
Elevated for  
(2.36 mm) .093" PCB  
(Requires WTFM  
lead style H01, D row  
and WT)

Specify only A,  
LC, DS or WT  
Not available with RA,  
RE1 and RE2 unless  
otherwise noted.

**A**  
= Alignment Pin

**LC**  
= Locking Clip  
(Manual Placement  
required)

**DS**  
Dual  
Screw Down  
for (1.60 mm)  
.062" PCB  
(05, 07, 10, 15, 20,  
25, 30, 35, 40  
positions only)  
(WTFM lead styles  
H01 and H02 only)  
(Requires D  
row option)  
(Mates with  
WTFM DS option and  
WSFSD/WSFSDT SS and  
DS option only)  
(Not available with A,  
LC, WT, K, P, XR)

**WT**  
= Weld Tab  
(WTFM lead styles  
H01 and H02 only)  
(Required callout  
for RE1 & RE2)  
(Mates to WSFSS/WSFSD  
SR and DR  
option only)  
(05, 07, 10, 15, 20,  
25, 30, 35, 40, 45, 50  
positions only)

SMT lead styles only  
Specify only K or P

**K**  
= Polyimide Film  
Pick & Place Pad

**P**  
= Plastic Pick  
& Place Pad  
(5 positions min.)  
(Not available with  
5 position with WT)

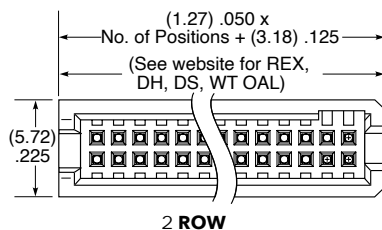
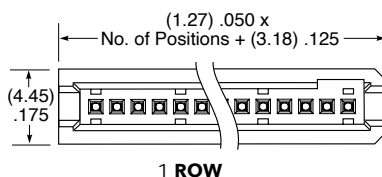
Specify TR  
(Not available with DS)

**TR**  
= Tape & Reel

**WTFM**  
Board Mates:  
WSFM, WSFMC  
Cable Mates:  
WSFSD, WSFSS

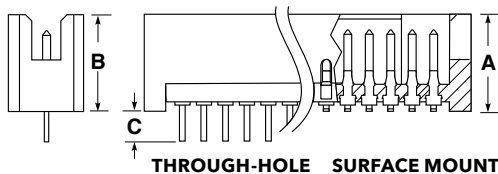


**WTFML**  
Board Mates:  
WSFML  
Cable Mates:  
WSFSD,  
WTFSD ( T end option)



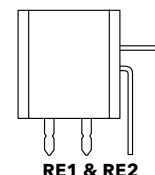
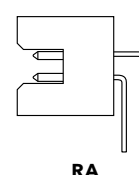
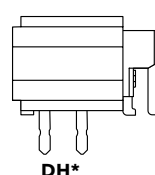
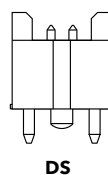
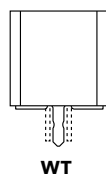
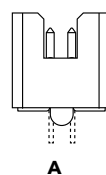
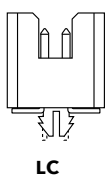
| MATED HEIGHTS*   |      |               |
|------------------|------|---------------|
| LEAD STYLE (SMT) |      | MATED HEIGHT* |
| WTFM             | WSFM |               |
| H02              | H02  | (6.35) .250   |
| H12              |      | (8.13) .320   |
| H22              |      | (9.91) .390   |
| H32              |      | (11.81) .465  |
| LEAD STYLE (T/H) |      | MATED HEIGHT* |
| WTFM             | WSFM |               |
| H01              | H01  | (5.97) .235   |
| H03              |      | (5.97) .235   |
| H11              |      | (7.75) .305   |
| H13              |      | (7.75) .305   |
| H21              |      | (9.53) .375   |
| H23              |      | (9.53) .375   |
| H31              |      | (11.43) .450  |

\*Processing conditions will affect mated height.



| LEAD STYLE (SMT) | A            |
|------------------|--------------|
| H02              | (5.72) .225  |
| H12*             | (7.49) .295  |
| H22*             | (9.27) .365  |
| H32*             | (11.18) .440 |

| LEAD STYLE (T/H) | B            | C           |
|------------------|--------------|-------------|
| H01              | (5.59) .220  | (1.97) .078 |
| H03*             | (5.59) .220  | (2.77) .109 |
| H11*             | (7.37) .290  | (1.97) .078 |
| H13*             | (7.37) .290  | (2.77) .109 |
| H21*             | (9.14) .360  | (1.97) .078 |
| H23*             | (9.14) .360  | (2.77) .109 |
| H31*             | (11.05) .435 | (1.97) .078 |



REVISION AP

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TABLE 1

| LEAD STYLE | BOARD SPACE WHEN MATED WITH WSOLC |
|------------|-----------------------------------|
| 02         | 6.35mm                            |

WSOLC-4x XX H XX X

FOUR ROWS  
NO. OF POSITIONS  
05, 10, 15, 20, 25  
30, 35, 40, 45, 50  
(PER ROW)  
LEAD STYLE  
02

Q XX X XX

PACKAGING  
BLANK: TUBES (SEE NOTE 2)  
TR: TAPE & REEL

PICK & PLACE OPTION  
P: PICK & PLACE PAD  
K: POLYIMIDE FILM PAD

OPTIONS  
LC: LOCKING CLIP (SEE FIG 2, SHT 2) (SEE NOTE 5)  
NOT AVAILABLE WITH A  
A: ALIGNMENT PINS (SEE FIG 3, SHT 2)  
(NOT AVAILABLE WITH LC)

ROW SPEC  
-Q: QUAD

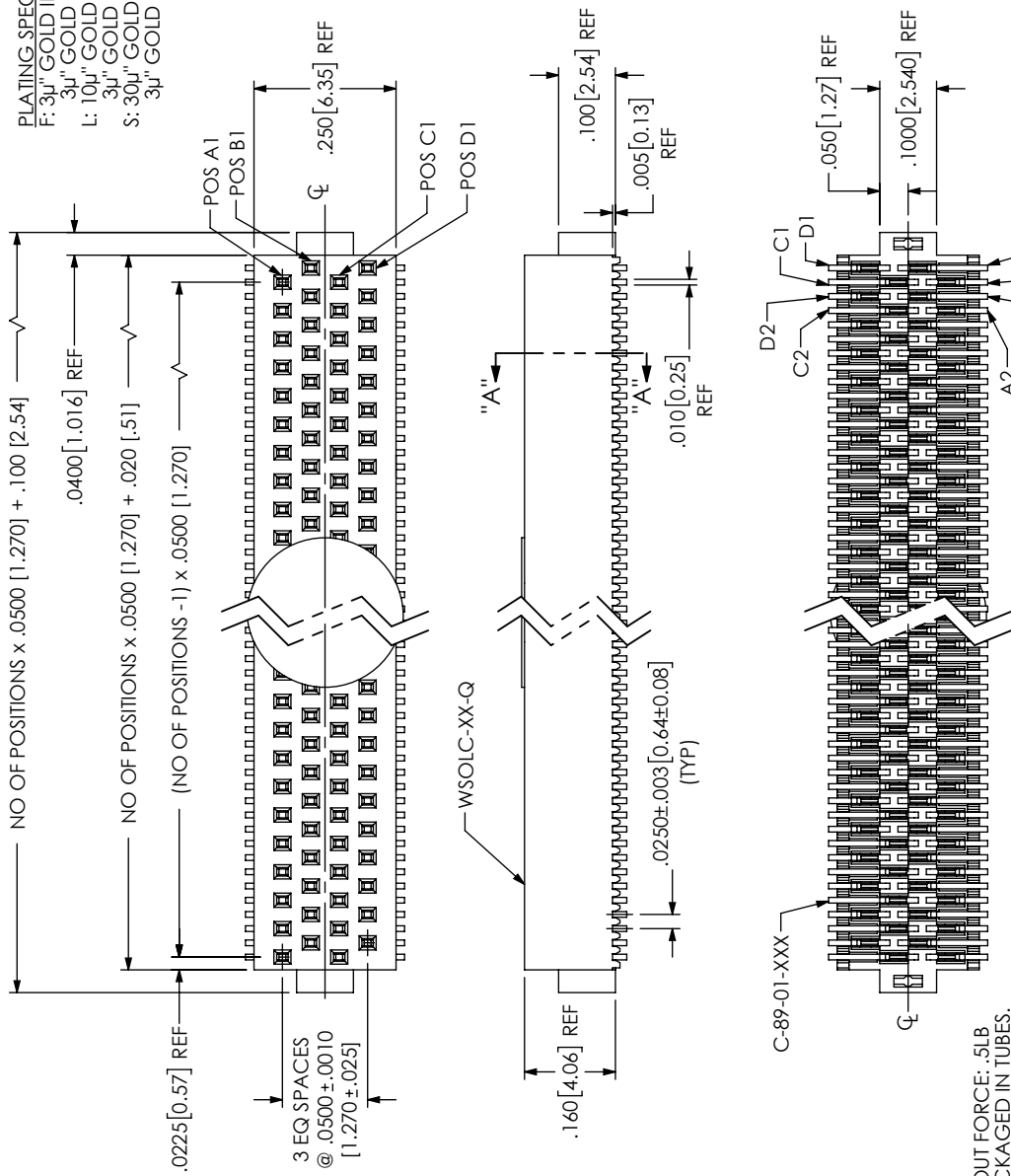


FIG. 1

- NOTES:
1. MINIMUM PUSHOUT FORCE: .5LB
  2. PARTS TO BE PACKAGED IN TUBES.
  3. © INDICATES A CRITICAL DIMENSION.
  4. S PLATING CAN BE SUBSTITUTED FOR L & F PLATING.
  5. DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, WORLDPO RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH THE LC OPTION.
  6. INSULATOR MATERIAL: LCP, UL 94 VO
  7. COPLANARITY:
    - 05 THRU 30 POSITION: .0040 [.102]
    - 35 THRU 50 POSITION: .0060 [.152]
  8. ORDERS WILL BE PACKAGED ACCORDING TO THE WORLDPO PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON
  9. ATTACH LABEL TO EACH REEL

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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

| DECIMALS             | ANGLES |
|----------------------|--------|
| XX: ±.01 [0.3]       | 5°     |
| XXX: ±.005 [0.13]    |        |
| XXXX: ±.0020 [0.051] |        |

DO NOT SCALE DRAWING  
SHEET SCALE: 3:1

MATERIAL: VECTRA E130. COLOR: BLACK  
CONTACT: PHOS BRONZE

MAX FLASH ALLOWED: .002 [0.05]  
MAX GATE VESTIGE: .002 [0.05]

**WORLDPO**

Shenzhen WorldPO Precision Devices Co., LTD  
TEL: +86 01331 6922511  
GU@WORLDPO.COM

DESCRIPTION:  
QUAD ROW STAGGERED SMT SOCKET ASM  
DWG. NO.  
WSOLC-4x XX H XX X Q XX X XX  
BY: TIM P. 2/10/2023 SHEET 1 OF 2

FIG 2  
LC OPTION  
(DIFFERENT AS SHOWN, OTHER WISE SAME AS FIG 1)

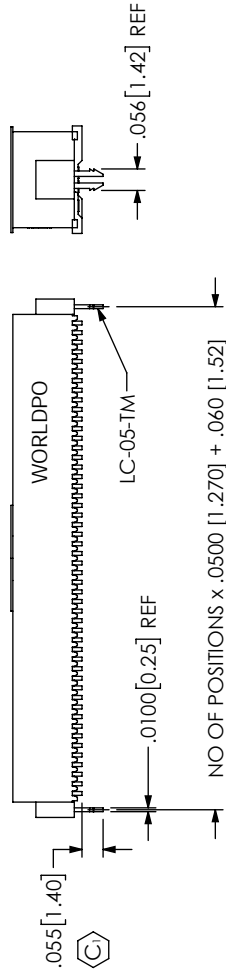
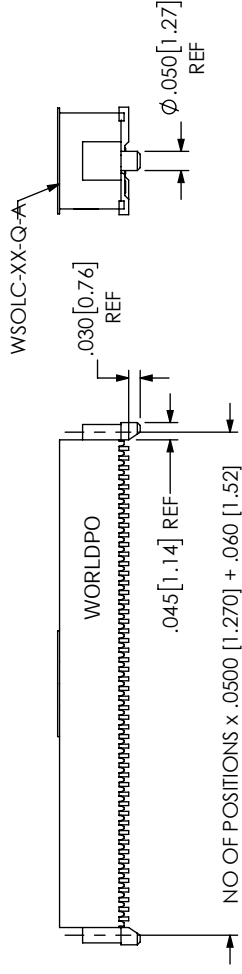
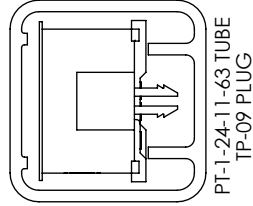


FIG 3  
A MOLDED  
(DIFFERENT AS SHOWN, OTHER WISE SAME AS FIG 1)

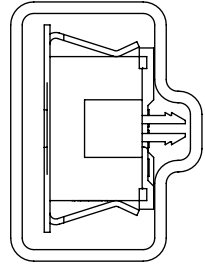


PACKAGING VIEW

| TABLE                          |                     |
|--------------------------------|---------------------|
| NO OPTION, LC, A, K, K LC, P A | PT-1-24-11-63 TP-09 |
| P, P LC, P A                   | PT-1-24-01-61 TP-03 |



PT-1-24-11-63 TUBE  
TP-09 PLUG



PT-1-24-01-61 TUBE  
TP-03 PLUG

FIG 4  
-P OPTION  
(DIFFERENT AS SHOWN, OTHER WISE SAME AS FIG 1)

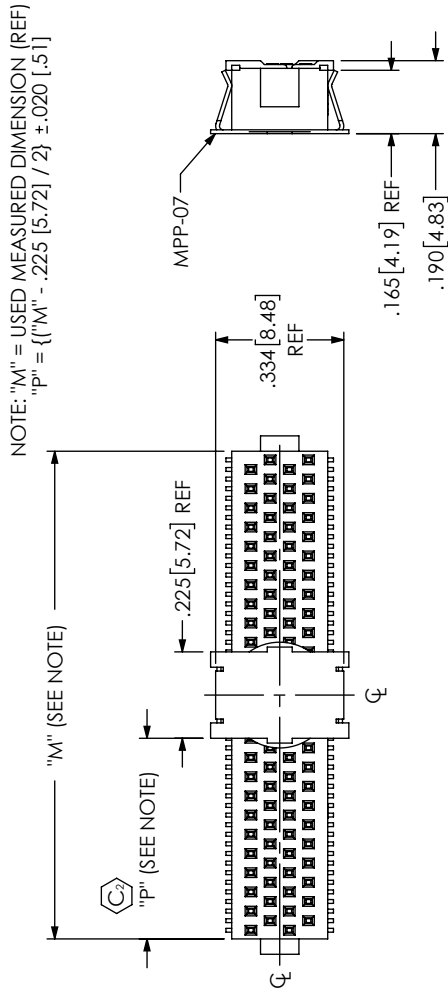
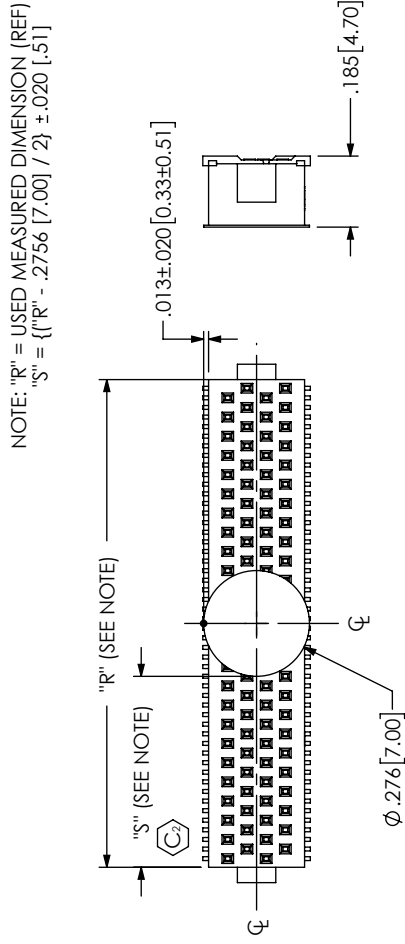


FIG 5  
-P POLYIMIDE FILM PAD  
(DIFFERENT AS SHOWN, OTHER WISE SAME AS FIG 1)



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SHEET SCALE: 2:1

**WORLDPO**

Shenzhen WorldPO Precision Devices Co., LTD  
TEL: +86 01331 6922511 GU@WORLDPO.COM

DESCRIPTION:  
QUAD ROW STAGGERED SMT SOCKET ASM  
DWG. NO.  
WSOLC-4X XX H XX X Q XX X XX  
BY: TIM P. 2/10/2023 SHEET 2 OF 2

REVISION BG

DO NOT SCALE FROM THIS PRINT

FOUR ROWS WTOLC- 4x XX H XX XXX Q XX XX XX

PACKAGING  
BLANK: TUBE (SEE NOTE 2)  
TR: TAPE & REEL  
(SEE NOTE 7 & 8)

PICK & PLACE OPTION  
P: PICK & PLACE PAD  
(EXISTING CUSTOMER  
SUPPORT ONLY)  
K: POLYIMIDE FILM PAD  
(USE K-DOT-.354-.469-.005)

OPTIONS  
LC: LOCKING CLIP (SEE NOTE 5)  
(USE LC-09-TM)  
(NOT AVAILABLE WITH -A)  
A: ALIGNMENT PIN  
(USE WTOLC XX Q A FOR STYLE 02  
AND WTOLCH XX Q A FOR STYLES  
12, 22 & 32)  
(NOT AVAILABLE WITH LC)

NO OF POSITIONS  
05, 10, 15, 20, 25  
30, 35, 40, 45, 50  
(PER ROW)

LEAD STYLE  
(SEE TABLE 1)  
02, 12, 22, 32

PLATING SPEC  
(VALUES GIVEN ARE  
IN MICRO-INCHES)

S: SELECTIVE, 30 AU / 50 Ni MIN ON  
CONTACT, 3 AU / 50 Ni MIN  
ON TAIL

L: LIGHT SELECTIVE, 10 AU / 50 Ni MIN ON  
CONTACT, 3 AU / 50 Ni MIN ON TAIL  
ON TAIL

F: FLASH GOLD, 3 AU / 50 Ni MIN ON  
CONTACT, 3 AU / 50 Ni MIN ON TAIL

STL: SELECTIVE, 30 AU / 100 Ni MIN ON  
CONTACT, 100-250 Sn-Pb / 50 Ni MIN  
ON TAIL (SEE NOTE 6)

ROW SPEC  
Q: QUAD

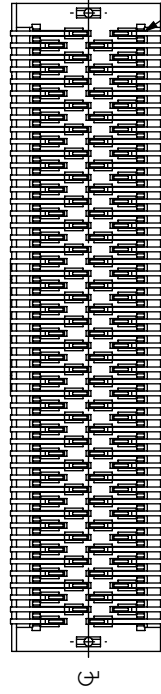
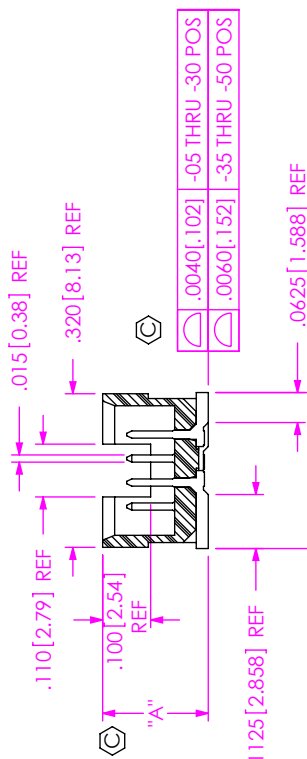
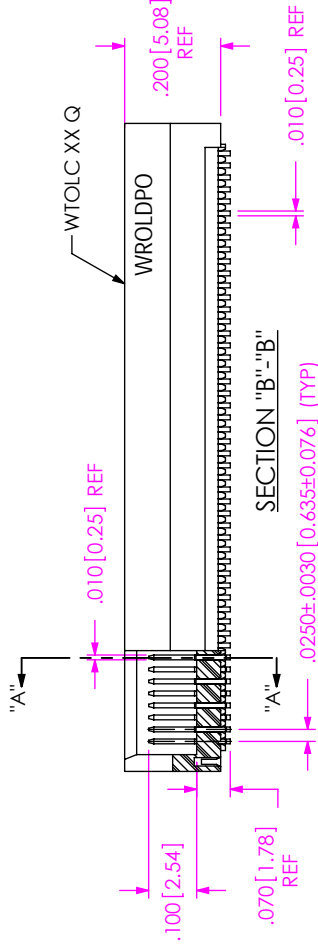
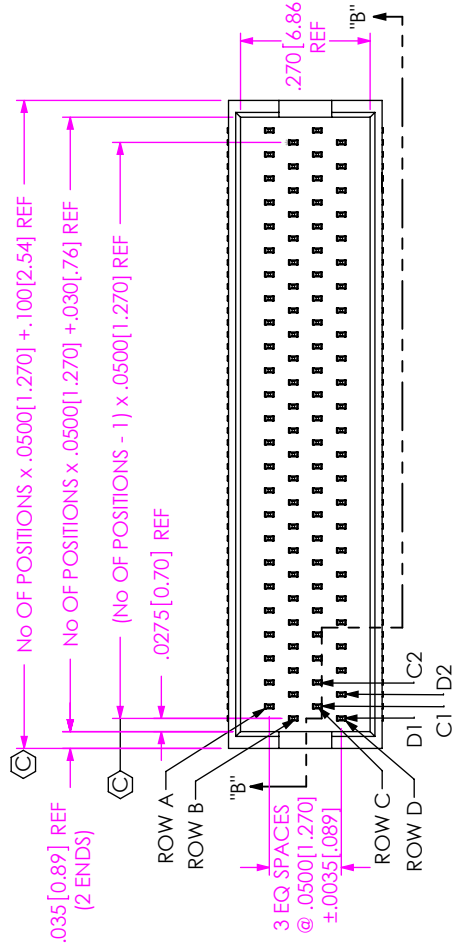


FIG 1  
T 1M13.01 XXX 2  
(SEE NOTE 6)

NOTES:

1. MINIMUM PUSHOUT FORCE: 6 OZ.
2. PARTS TO BE PACKAGED IN TUBES.
3. S PLATING CAN BE SUBSTITUTED FOR L AND F PLATING STYLES.
4. © REPRESENTS A CRITICAL DIMENSION.
5. DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, THE LC OPTION IS NOT COMPATIBLE WITH AUTO PLACEMENT. WORLDPO RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH THE LC OPTION.
6. FOR -STL PLATING:  
USE SUB T 1M13.01 STL 2 FOR 02 LEAD STYLE.  
USE T 1M14.0X STL 2 FOR 12, 22, 32 LEAD STYLES.
7. ORDERS WILL BE PACKAGED ACCORDING TO THE WORLDPO PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.WORLDPO.COM.
8. ATTACH LABEL TO EACH REEL.

TABLE 1

| LEAD STYLE | "A"           | USE TERMINAL    | SEE FIG | BOARD SPACE WHEN MATED WITH SOLC |
|------------|---------------|-----------------|---------|----------------------------------|
| 02         | 2200 [5.588]  | T-1M13-01-XXX-2 | 1       | .2500 [6.350]                    |
| 12         | 2850 [7.239]  | T-1M14-02-XXX-2 | 2       | .3150 [8.000]                    |
| 22         | 3637 [9.238]  | T-1M14-03-XXX-2 | 2       | .3937 [10.000]                   |
| 32         | 4424 [11.237] | T-1M14-04-XXX-2 | 2       | .4724 [12.000]                   |

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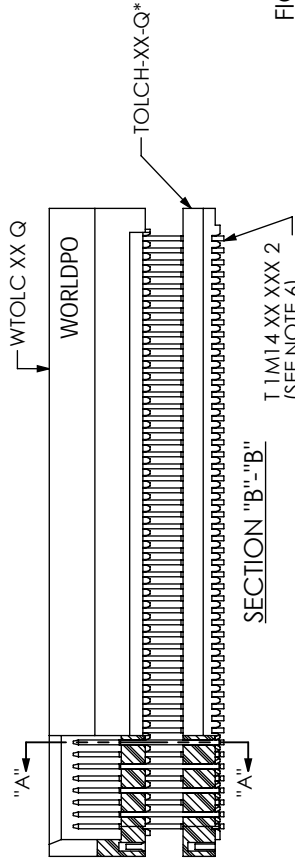
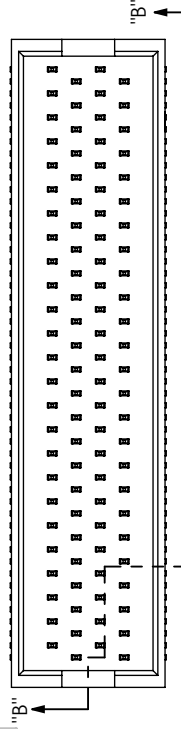
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:  
DECIMALS .XX:  $\pm 0.10 [0.3]$   
XXX:  $\pm 0.005 [0.13]$   
XXXX:  $\pm 0.0020 [0.051]$   
ANGLES  $\pm 5^\circ$

DO NOT SCALE DRAWING  
SHEET SCALE: 1:0.4  
MATERIAL:  
BODY:  
LCP UL 94 VO, COLOR: BLACK  
TERMINAL:

**WORLDPO**

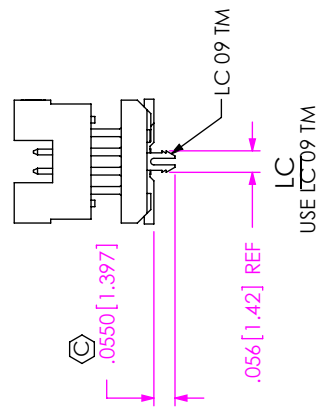
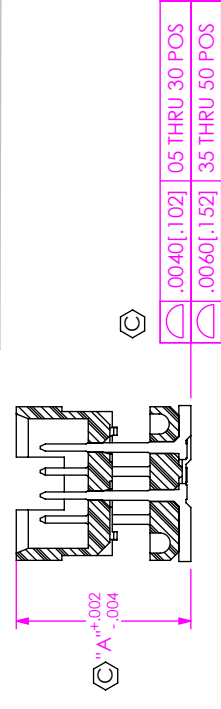
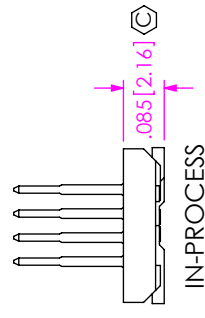
Shenzhen WorldPO Precision Devices Co., LTD  
TEL : +86 013316922511 GU@WORLDPO.COM

DESCRIPTION:  
QUAD ROW STAGGERED SMT TERMINAL ASM  
DWG. NO.  
WTOLC- 4x XX H XX XXX Q XX XX XX  
BY: D PURVIS 03/10/2023 SHEET 1 OF 3

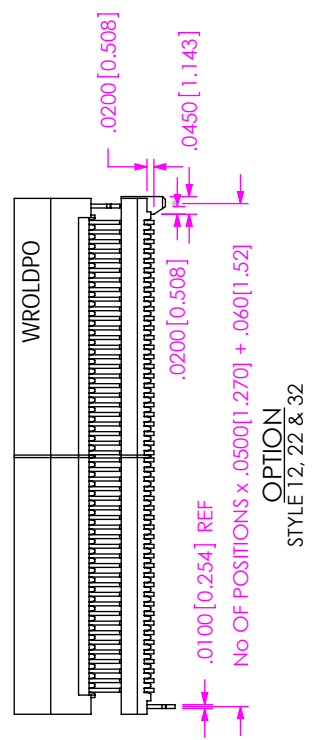


SECTION "B"-"B"

FIG 2  
\*WTOLCH BODY IN THIS DESIGN REFLECTS  
ALTERNATE STANDOFF DESIGN

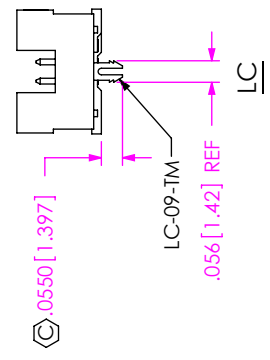


LC  
USE LC09 TM

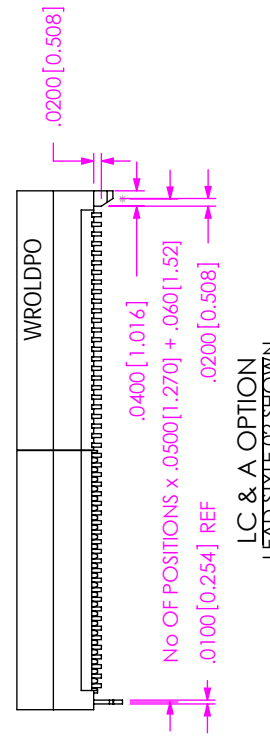


OPTION  
STYLE 12, 22 & 32

A  
USE TOLCH XX Q A



LC  
LC & A OPTION  
LEAD STYLE 02 SHOWN

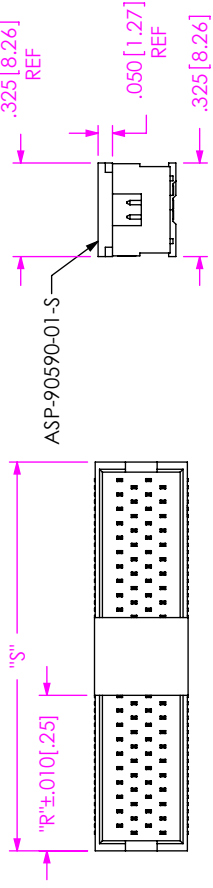


LC & A OPTION  
LEAD STYLE 02 SHOWN

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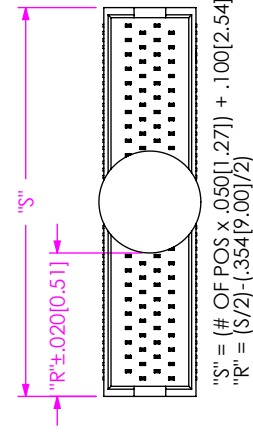
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QUAD ROW STAGGERED SMT TERMINAL ASM  
DWG. NO.  
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BY: D PURVIS 03/10/2023 SHEET 2 OF 3



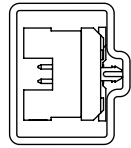
"S" = (# OF POS x .050 [1.27]) + .100 [2.54]  
 "R" = (S/2) - .135 [3.429]

P & PL OPTION  
 PICK & PLACE PAD

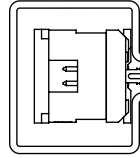


"S" = (# OF POS x .050 [1.27]) + .100 [2.54]  
 "R" = (S/2) - (.354 [9.00]/2)

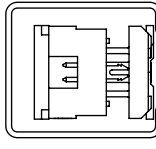
K OPTION  
 PICK & PLACE PAD



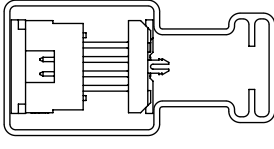
02/12 K/12 LC  
 PT-1-24-01-70 TUBE  
 TP-07 PLUG



12 LC P/22/22 K/22 LC P  
 PT-1-24-01-70 TUBE  
 TP-29 PLUG



22 P/22 A P  
 PT-1-24-01-44 TUBE  
 TP-13 PLUG



32  
 PT-1-24-01-44 TUBE  
 TP-13 PLUG

PACKAGING VIEWS

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 BY: D PURVIS 03/10/2023 SHEET 3 OF 3