



**Distributor of Molex Connector Corporation: Excellent Integrated System Limited**  
Datasheet of 0015247242 - Connector Receptacle 24 Position 0.165" (4.20mm) Gold Through Hole

Contact us: [sales@integrated-circuit.com](mailto:sales@integrated-circuit.com) Website: [www.integrated-circuit.com](http://www.integrated-circuit.com)

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## Excellent Integrated System Limited

Stocking Distributor

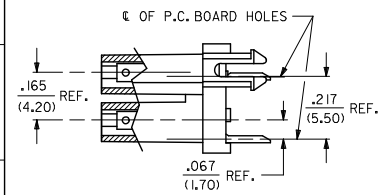
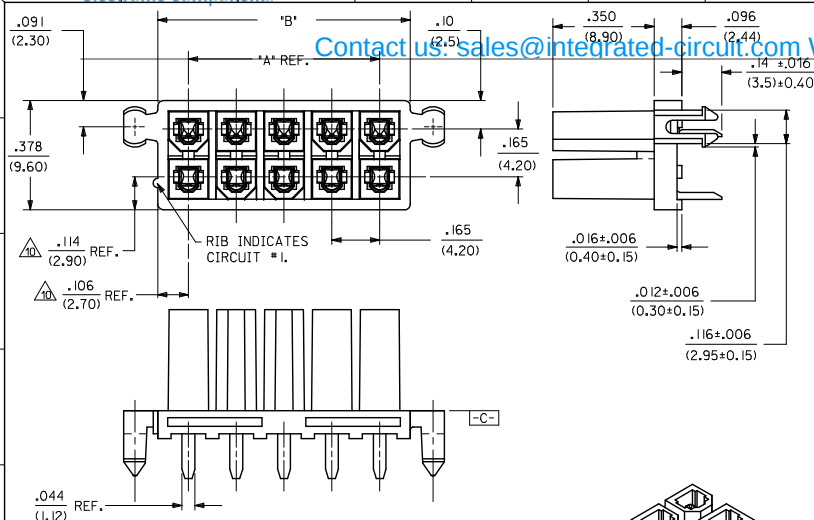
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[0015247242](#)

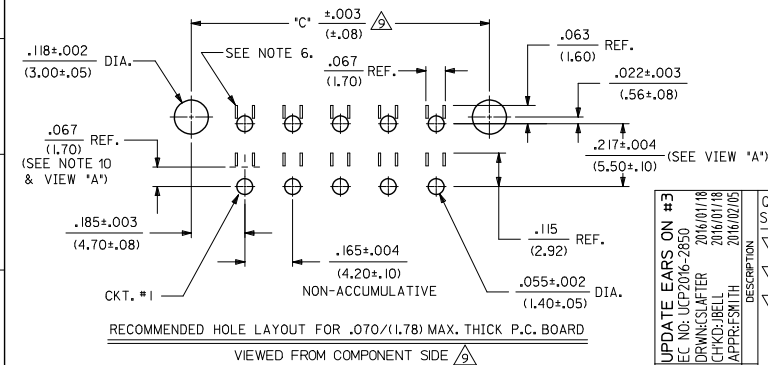
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VIEW "A"

RECOMMENDED HOLE LAYOUT FOR .070/(1.78) MAX. THICK P.C. BOARD  
VIEWED FROM COMPONENT SIDE

## NOTES:

## 1) HOUSING AND TERMINAL MATERIAL

- A - HOUSING : NYLON 6/6, UNFILLED U.L. 94V-2, COLOR NATURAL. TERMINAL: BRASS.  
B - HOUSING : NYLON 6/6, UNFILLED U.L. 94V-0, COLOR NATURAL. TERMINAL: BRASS.  
C - HOUSING : NYLON 6/6, UNFILLED U.L. 94V-2, COLOR NATURAL. TERMINAL: PHOS. BRONZE.  
D - HOUSING : NYLON 6/6, UNFILLED U.L. 94V-0, COLOR NATURAL. TERMINAL: PHOS. BRONZE.

## 2) TERMINAL PLATING:

- 1 - .000100/(.00254) MIN. MATTE TIN OVER .000050/(.00127) MIN. NICKEL.  
2 - .000030/(.00076) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.  
4 - .000050/(.00127) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.

## 3) PRODUCT SPECIFICATION: PS-5556-002.

## 4) TRAY PACK PER PK-42385-999.

## 5) PART MATES WITH MINI-FIT B.M.J. PLUG #42475

## AND HEADERS 42404, 42440, 43810, 43879, AND 44068

## 6) PHANTOM LINES INDICATE AREAS WHERE TERMINAL STANDOFFS CONTACT P.C. BOARD. NO EXPOSED TRACES OR VIAS ALLOWED NEAR THESE AREAS.

## 7) A MAXIMUM TOLERANCE OF .050/(1.27) ALLOWS FOR 2 POINTS OF ELECTRICAL CONTACT. A MAXIMUM TOLERANCE OF .020/(.51) ALLOWS FOR 4 POINTS OF CONTACT.

## 8) .016 IN/IN OR .016 MM/MM MAX. BOW ALLOWABLE AT DATUM -C-.

## 9) IT IS RECOMMENDED TO USE THE 42475 SERIES MATING PART NUMBER WITHOUT TERMINALS TO AID IN PCB INSERTION. INSERT THE 42385 PART INTO THE 42475 PART AND THEN INSERT INTO THE PCB.

## 10) DIMENSION TO BE USED FOR ALIGNMENT OF CIRCUIT #1 OF MATING CONNECTOR

## 11) CONNECTOR ASSEMBLIES ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.

## 12) PARTS NOT DESIGNED FOR CURRENT SHARING.

## 13) WHEN THIS PRODUCT IS USED IN A BLIND MATING APPLICATION,

THE SYSTEM LEVEL DESIGN MUST INCORPORATE GUIDANCE SO THE CONNECTORS ARE WITHIN THE CAPTURE ENVELOPE (UP TO (.100/2.54) MISALIGNMENT) OF THE FLANGES ON THE HEADER OR PLUG HOUSING AND CAN THUS ALIGN THEMSELVES AS THEY COME TOGETHER. FLOAT IS ALSO REQUIRED IN THE OVERALL DESIGN, TO ALLOW THE PCB RECEPTACLE OR IT'S MATE TO MOVE INTO A STRESS-FREE POSITION AFTER MATING. IN BOARD TO BOARD APPLICATIONS, ONLY ONE HEADER IS ALLOWED PER P.C. BOARD.

## 14) PARTS CONFORM TO CLASS 'B' REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

## LEGEND:

A - 42385 - \*\* \*  
BASE NUMBER  
CIRCUIT SIZE  
(02-24)  
HOUSING AND TERMINAL MATERIAL  
(SEE NOTE 1.)  
PLATING  
(SEE NOTE 2.)

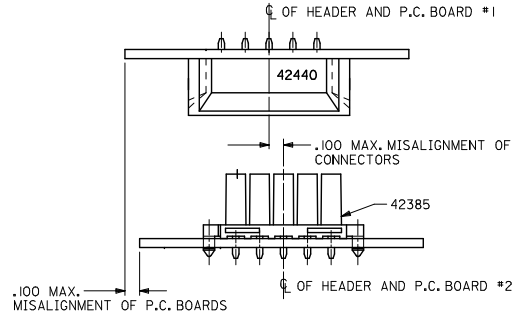
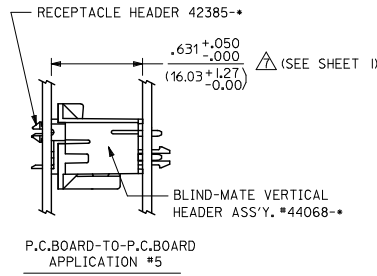
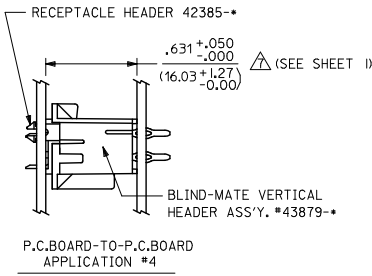
| QUALITY SYMBOLS | DESCRIPTION   |
|-----------------|---------------|
| ✓=0             | NO DEFECTS    |
| ✓=1             | MINOR DEFECTS |
| ✓=2             | MAJOR DEFECTS |

| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        |         |
|------------------------------------------------------------|--------|---------|
|                                                            | mm     | INCH    |
| 4 PLACES                                                   | ± .005 | ± .0002 |
| 3 PLACES                                                   | ± .003 | ± .0001 |
| 2 PLACES                                                   | ± .002 | ± .0001 |
| 1 PLACE                                                    | ± .001 | ± .0001 |
| 0 PLACE                                                    | ± .000 | ± .0000 |
| ANGULAR ± 5 °                                              |        |         |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |         |

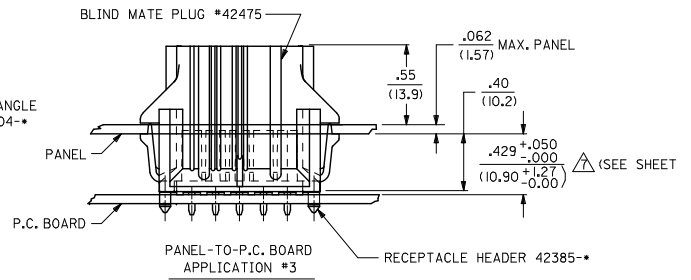
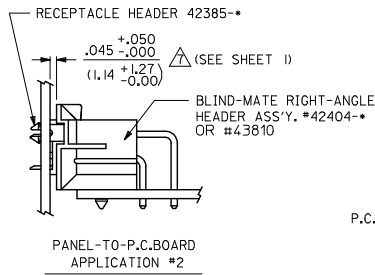
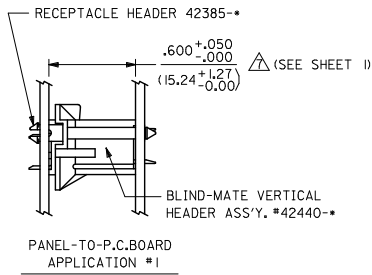
| DIMENSION STYLE | SCALE      | DESIGN UNITS           | THIRD ANGLE PROJECTION |
|-----------------|------------|------------------------|------------------------|
| IN/MM           | 4:1        | METRIC                 | YES                    |
| DRAWN BY        | DATE       | TITLE                  |                        |
| RJF             | 1988/12/09 | RECEPTACLE HEADER ASSY |                        |
| CHECKED BY      | DATE       | MINI-FIT SERIES        |                        |
| JTR             | 1988/12/09 | BLIND MATE             |                        |
| APPROVED BY     | DATE       |                        |                        |
| FSMITH          | 2010/11/22 |                        |                        |

| MATERIAL NO. | DOCUMENT NO. | SHEET NO. |
|--------------|--------------|-----------|
| SEE SHT 3-4  | SDA-42385-*  | 1 OF 4    |

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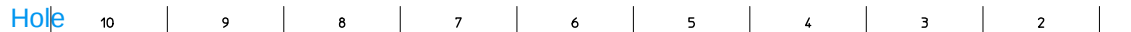


ALIGNMENT TOLERANCES FOR .100 MAX. BOARD-TO-BOARD MISALIGNMENT  
(NO CONNECTOR FLOAT)



SEE NOTE 13

| REV | DESCRIPTION              | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                |        | DIMENSION STYLE |            | SCALE                                                                                                                         | DESIGN UNITS | THIRD ANGLE PROJECTION | TITLE                                                   | DOCUMENT NO. | SHEET NO. |
|-----|--------------------------|-----------------|------------------------------------------------------|--------|-----------------|------------|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|---------------------------------------------------------|--------------|-----------|
|     |                          |                 | mm                                                   | INCH   | IN/MM           | DATE       |                                                                                                                               |              |                        |                                                         |              |           |
| 1   | SEE SHEET 1              |                 | 4 PLACES ± .005                                      | ± .001 | RJF             | 1988/12/09 | 4:1                                                                                                                           | METRIC       | THIRD ANGLE PROJECTION | RECEPTACLE HEADER ASSY<br>MINI-FIT SERIES<br>BLIND MATE |              | 2 OF 4    |
| 2   | EC NO: UCP2016-2850      |                 | 3 PLACES ± .005                                      | ± .001 |                 |            |                                                                                                                               |              |                        |                                                         |              |           |
| 3   | DRWINGSLAFTER 2016/01/18 |                 | 2 PLACES ± 0.25                                      | ± .015 | JTR             | 1988/12/09 |                                                                                                                               |              |                        |                                                         |              |           |
| 4   | CHKD:JELL 2016/02/05     |                 | 1 PLACE ± 0.38                                       | ± .015 | FSM1TH          | 2010/11/22 |                                                                                                                               |              |                        |                                                         |              |           |
| 5   | APPR:SMITH               |                 | 0 PLACE ± .005                                       | ± .001 |                 |            |                                                                                                                               |              |                        |                                                         |              |           |
| 6   |                          |                 | ANGULAR ± 5°                                         |        | MATERIAL NO.    |            | SEE CHART                                                                                                                     |              | SDA-42385-*            |                                                         |              |           |
| 7   |                          |                 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        | SIZE            |            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |                                                         |              |           |



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tb\_frame\_C\_P\_AM-T  
Rev. G 2012/01/11



Distributor of Molex Connector Corporation: Excellent Integrated System Limited  
Datasheet of 0015247242 - Connector Receptacle 24 Position 0.165" (4.20mm) Gold Through

Hole

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| PART NUMBER | ENG. NUMBER  | CKT. SIZE | HSG./TERM. MATERIAL | TERMINAL PLATING  |
|-------------|--------------|-----------|---------------------|-------------------|
| NO E.D.P.   | A-42385-02D4 | 2         | 94V-0/P.B.          | 50 M.I. SEL. GOLD |
| NO E.D.P.   | -04D4        | 4         |                     |                   |
| NO E.D.P.   | -06D4        | 6         |                     |                   |
| NO E.D.P.   | -08D4        | 8         |                     |                   |
| NO E.D.P.   | -10D4        | 10        |                     |                   |
| NO E.D.P.   | -12D4        | 12        |                     |                   |
| NO E.D.P.   | -14D4        | 14        |                     |                   |
| NO E.D.P.   | -16D4        | 16        |                     |                   |
| NO E.D.P.   | -18D4        | 18        |                     |                   |
| NO E.D.P.   | -20D4        | 20        |                     |                   |
| NO E.D.P.   | -22D4        | 22        |                     |                   |
| NO E.D.P.   | A-42385-24D4 | 24        | 94V-0/P.B.          | 50 M.I. SEL. GOLD |
| NO E.D.P.   | A-42385-02B4 | 2         | 94V-0/BRASS         | 50 M.I. SEL. GOLD |
| NO E.D.P.   | -04B4        | 4         |                     |                   |
| NO E.D.P.   | -06B4        | 6         |                     |                   |
| NO E.D.P.   | -08B4        | 8         |                     |                   |
| NO E.D.P.   | -10B4        | 10        |                     |                   |
| NO E.D.P.   | -12B4        | 12        |                     |                   |
| NO E.D.P.   | -14B4        | 14        |                     |                   |
| NO E.D.P.   | -16B4        | 16        |                     |                   |
| NO E.D.P.   | -18B4        | 18        |                     |                   |
| NO E.D.P.   | -20B4        | 20        |                     |                   |
| NO E.D.P.   | -22B4        | 22        |                     |                   |
| NO E.D.P.   | A-42385-24B4 | 24        | 94V-0/BRASS         | 50 M.I. SEL. GOLD |

| PART NUMBER | ENG. NUMBER  | CKT. SIZE | HSG./TERM. MATERIAL | TERMINAL PLATING  |
|-------------|--------------|-----------|---------------------|-------------------|
| NO E.D.P.   | A-42385-02C4 | 2         | 94V-2/P.B.          | 50 M.I. SEL. GOLD |
| NO E.D.P.   | -04C4        | 4         |                     |                   |
| NO E.D.P.   | -06C4        | 6         |                     |                   |
| NO E.D.P.   | -08C4        | 8         |                     |                   |
| NO E.D.P.   | -10C4        | 10        |                     |                   |
| NO E.D.P.   | -12C4        | 12        |                     |                   |
| NO E.D.P.   | -14C4        | 14        |                     |                   |
| NO E.D.P.   | -16C4        | 16        |                     |                   |
| NO E.D.P.   | -18C4        | 18        |                     |                   |
| NO E.D.P.   | -20C4        | 20        |                     |                   |
| NO E.D.P.   | -22C4        | 22        |                     |                   |
| NO E.D.P.   | A-42385-24C4 | 24        | 94V-2/P.B.          | 50 M.I. SEL. GOLD |
| NO E.D.P.   | A-42385-02A4 | 2         | 94V-2/BRASS         | 50 M.I. SEL. GOLD |
| NO E.D.P.   | -04A4        | 4         |                     |                   |
| NO E.D.P.   | -06A4        | 6         |                     |                   |
| NO E.D.P.   | -08A4        | 8         |                     |                   |
| NO E.D.P.   | -10A4        | 10        |                     |                   |
| NO E.D.P.   | -12A4        | 12        |                     |                   |
| NO E.D.P.   | -14A4        | 14        |                     |                   |
| NO E.D.P.   | -16A4        | 16        |                     |                   |
| NO E.D.P.   | -18A4        | 18        |                     |                   |
| NO E.D.P.   | -20A4        | 20        |                     |                   |
| NO E.D.P.   | -22A4        | 22        |                     |                   |
| NO E.D.P.   | A-42385-24A4 | 24        | 94V-2/BRASS         | 50 M.I. SEL. GOLD |

|                                                                                                           |                                      |                                                      |  |                                            |  |                                                                                                                                  |                        |                        |  |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------|--|--------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2016-2850<br>DRAWN BY: 2016/01/18<br>CHKD: J.BELL<br>APPROV: SMITH<br>2016/02/05 | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE<br>IN/MM                   |  | SCALE                                                                                                                            | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |
|                                                                                                           |                                      | 4 PLACES ±.005 ±.005                                 |  | DRAWN BY: R.J.F. DATE: 1988/12/09          |  | TITLE<br>RECEPTACLE HEADER ASSY<br>MINI-FIT SERIES<br>BLIND MATE<br><b>molex</b><br>DOCUMENT NO. SDA-42385-*<br>SHEET NO. 4 OF 4 |                        |                        |  |
|                                                                                                           |                                      | 3 PLACES ±.010 ±.010                                 |  | CHECKED BY: J.T.R. DATE: 1988/12/09        |  |                                                                                                                                  |                        |                        |  |
|                                                                                                           |                                      | 2 PLACES ±0.25 ±.015                                 |  | APPROVED BY: F.S.M.I.T.H. DATE: 2010/11/22 |  |                                                                                                                                  |                        |                        |  |
| 1 PLACE ±0.38 ±.015                                                                                       |                                      | 0 PLACE ±.015 ±.015                                  |  | MATERIAL NO.                               |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION    |                        |                        |  |
| ANGULAR ± 5 °                                                                                             |                                      | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | SEE CHART                                  |  |                                                                                                                                  |                        |                        |  |