

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0755177644](#)
Status: **Active**
Overview: [gbx_backplane_connector_system](#)
Description: 1.85mm by 1.85mm (.073 by .073") Pitch 5-Pair GbX® Backplane Connector System, Power Module, 10 Circuits, 1.27µm (50µ") Gold (Au)

Documents:

[Packaging Specification \(PDF\)](#)
[Drawing \(PDF\)](#)

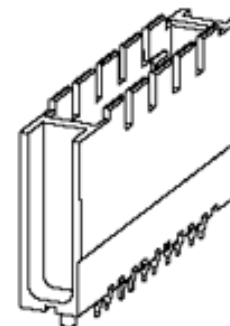
[Product Specification PS-75221-999 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

| | |
|-------------------------------|---|
| Product Family | Backplane Connectors |
| Series | 75517 |
| Application | Backplane |
| Application Tooling Documents | Tooling Manual |
| Comments | Blade Length A 7.50mm, B 7.50mm, C 6.00mm, D 4.50mm, E 4.50mm |
| Component Type | Power Header |
| Overview | gbx_backplane_connector_system |
| Product Name | GbX® |
| Style | N/A |

Physical

| | |
|--------------------------------|--------------------------------|
| Circuits (Loaded) | 10 |
| Circuits (maximum) | 10 |
| Circuits Detail | Rows A, B, C, D & E |
| Color - Resin | Gray (Dark) |
| Durability (mating cycles max) | 200 |
| First Mate / Last Break | Yes |
| Guide to Mating Part | No |
| Keying to Mating Part | None |
| Material - Metal | High Performance Alloy (HPA) |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin-Lead |
| Material - Resin | High Temperature Thermoplastic |
| Number of Columns | N/A |
| Number of Pairs | 5 |
| Number of Rows | 5 |
| Orientation | Vertical |
| PC Tail Length (in) | 0.094 In |
| PC Tail Length (mm) | 2.40 mm |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness Recommended (in) | 0.063 In |
| PCB Thickness Recommended (mm) | 1.60 mm |
| Packaging Type | Tube |
| Pitch - Mating Interface (in) | 0.102 In |
| Pitch - Mating Interface (mm) | 2.60 mm |
| Pitch - Term. Interface (in) | 0.102 In |
| Pitch - Term. Interface (mm) | 2.60 mm |
| Plating min: Mating (µin) | 50 |
| Plating min: Mating (µm) | 1.25 |
| Plating min: Termination (µin) | 30 |
| Plating min: Termination (µm) | 0.75 |
| Polarized to PCB | Yes |



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

China RoHS



Pb

Need more information on product environmental compliance?

Email productcompliance@molex.com
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

[75517Series](#)

Mates With

[75292 GbX® Daughtercard](#)

Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global

| Description | Product # |
|---|----------------------------|
| Insertion Module, GbX® 5 pair 1 - Up Power Module | 0622022007 |

| | |
|--------------------------------|------------------------------|
| Stackable | No |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | 105°C |
| Termination Interface: Style | Through Hole - Compliant Pin |

Electrical

| | |
|-------------------------------|------------------|
| Current - Maximum per Contact | 6A |
| Data Rate | 8.0 Gbps |
| Real Signals (per 25mm) | 48 |
| Shielded | No |
| Voltage - Maximum | 120V AC (RMS)/DC |

Material Info

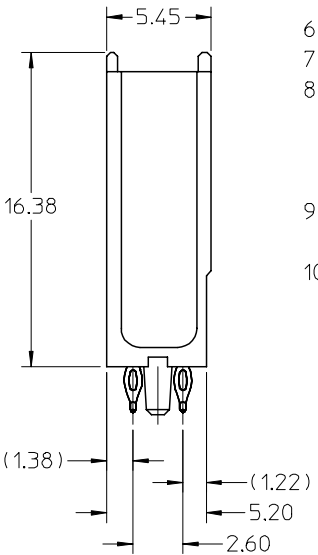
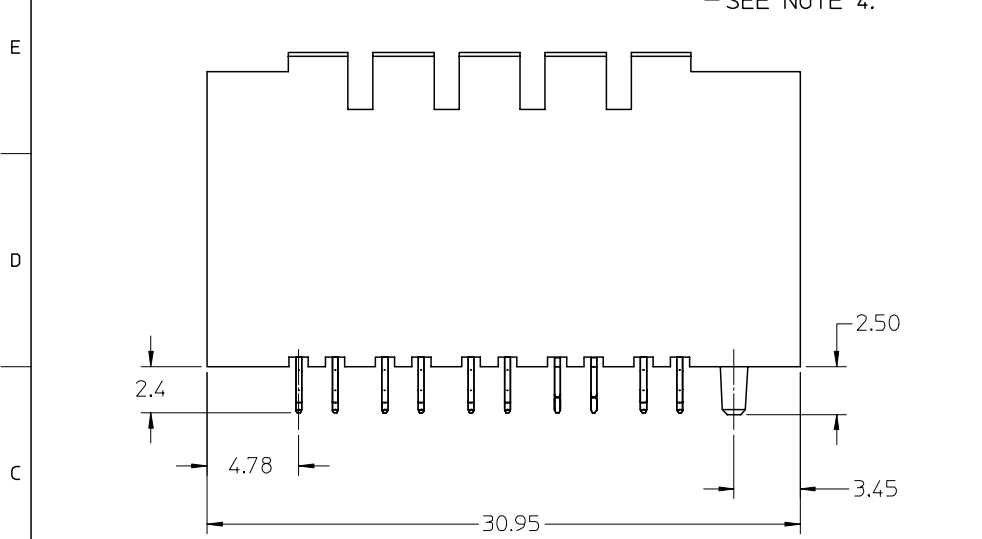
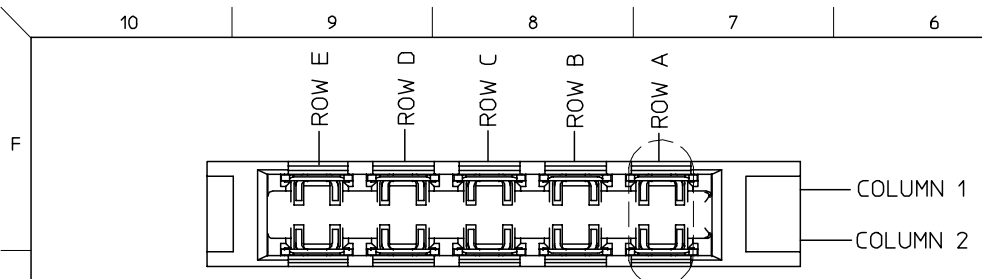
Reference - Drawing Numbers

| | |
|-------------------------|--------------|
| Packaging Specification | PK-70873-566 |
| Product Specification | PS-75221-999 |
| Sales Drawing | SD-75510-001 |

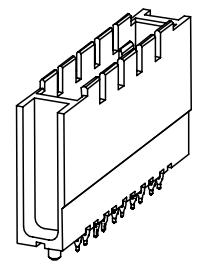
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This document was generated on 05/14/2010

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- NOTES:
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, GRAY; CONTACT - COPPER ALLOY.
 2. FINISH: SELECT GOLD IN CONTACT AREA, 50 μ" THICK; TIN/LEAD OR MATTE TIN IN COMPLIANT AREA.
 3. PACKAGING PER PK-70873-566.
 4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
 5. BACKPLANE ASSEMBLY MATES WITH DAUGHTERCARD POWER MODULE 75292-5***.
 6. PART SHOWN IS 75514-0467 (SHEET 4).
 7. SEE OTHER SHEETS FOR ADDITIONAL NOTES.
 8. WHEN INSERTING OPEN SIGNAL MODULES NEXT TO COLUMN 1 SIDE OF POWER MODULES, SIGNAL MODULES MUST BE INSERTED BEFORE THE POWERS TO AVOID INTERFERENCE BETWEEN THE TWO CONNECTOR HOUSINGS.
 9. THESE PARTS CONFORM TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
 10. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.



1-UP ASSEMBLY PART NUMBER

7 5 5 1 A - B C D E
 - TIN/LEAD PLATED PRODUCT -
 FOR EACH ROW LOCATION A, B, C, D, E:
 0 = VOID
 4 = 4.5 mm WIPE
 6 = 6.0 mm WIPE
 7 = 7.5 mm WIPE
 - LEAD-FREE PLATED PRODUCT -
 FOR EACH ROW LOCATION A, B, C, D, E:
 0 = VOID
 2 = 4.5 mm WIPE
 3 = 6.0 mm WIPE
 5 = 7.5 mm WIPE

| | | | | | | | | | |
|---|-------------------------------|---------------------------------------|--|--|---|---|------------------------|--|--|
| ADDED NOTES 9 & 10 EC NO: UCP2008-0426 DRWN: C STEWART 2007/08/29 CHKD: J BINGHAM 2007/08/30 APPR: J BINGHAM 2007/08/31 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | |
| | | | | MM ONLY | 4:1 | METRIC | | | |
| | | | | DRAWN BY | DATE | TITLE | | | |
| | | | | 4 PLACES ± | 2006/04/13 | GBX 5 PAIR BACKPLANE POWER SALES ASSEMBLY | | | |
| | | 3 PLACES ± | | CHECKED BY | DATE | MOLEX INCORPORATED | | | |
| | | 2 PLACES ± | | ELO | 2006/04/13 | MATERIAL NO. DOCUMENT NO. | | | |
| | | 1 PLACE ± | | APPROVED BY | DATE | SEE CHART SD-75510-001 | | | |
| | | ANGULAR ± | | CUNNINGHAM | 2006/04/17 | SHEET NO. 1 OF 4 | | | |
| | | | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | |
| | | | | SIZE B | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |

10 9 8 7 6 5 4 3 2 1

2-UP ASSEMBLY PART NUMBER

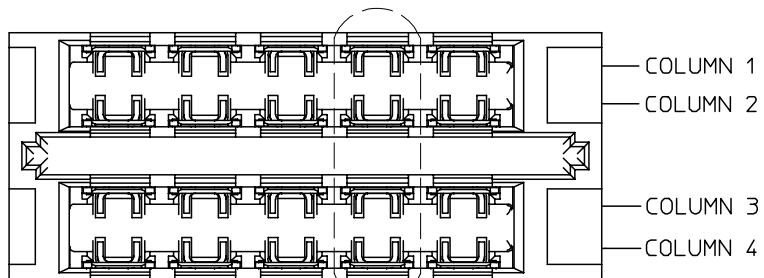
7 5 5 2 A - B C D E

- TIN/LEAD PLATED PRODUCT -
FOR EACH ROW LOCATION A, B, C, D, E:

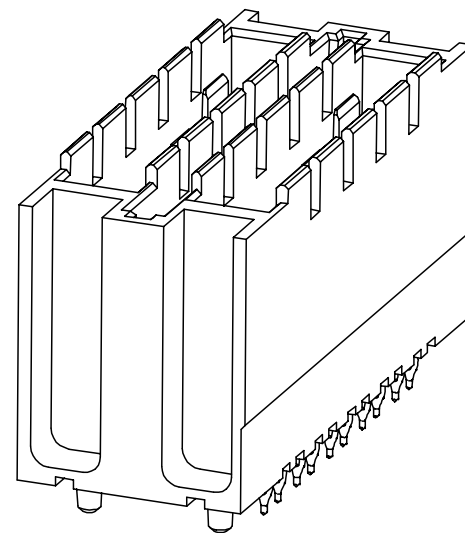
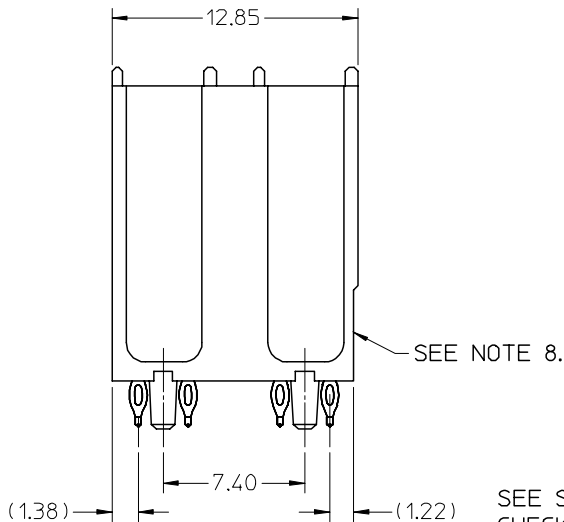
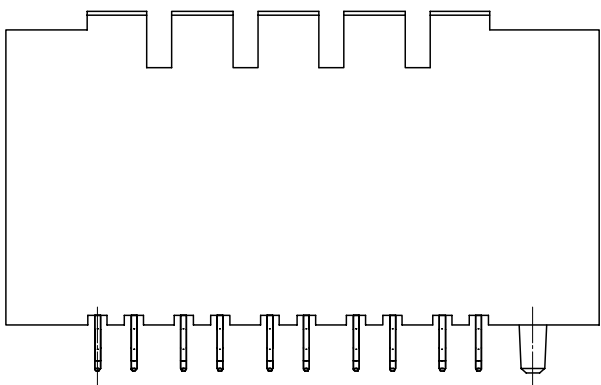
- 0 = VOID
- 4 = 4.5 mm WIPE
- 6 = 6.0 mm WIPE
- 7 = 7.5 mm WIPE

- LEAD-FREE PLATED PRODUCT -
FOR EACH ROW LOCATION A, B, C, D, E:

- 0 = VOID
- 2 = 4.5 mm WIPE
- 3 = 6.0 mm WIPE
- 5 = 7.5 mm WIPE



SEE NOTE 4.

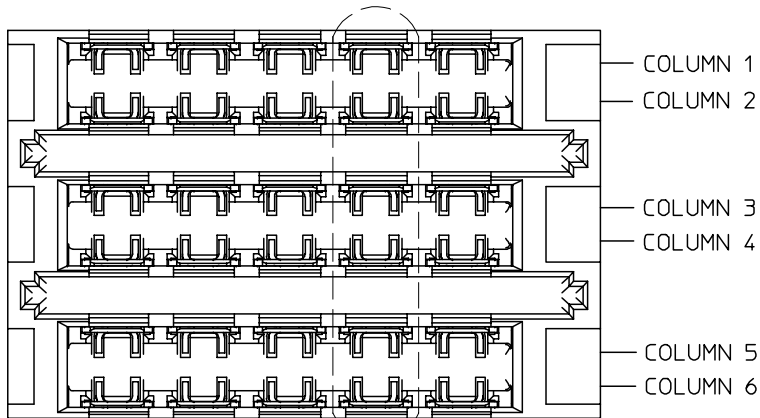


SEE SHEET 1 FOR ADDITIONAL INFORMATION
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

| | | | | | | | | | |
|--|-------------------------------|---------------------------------------|--|----------------------------|---------------------------|---|--|------------------------|--|
| SEE SHEET ONE EC NO: UCP2008-0426 DRWN: STEWART 2007/08/29 CHKD: BINGHAM 2007/08/30 APPR: BINGHAM 2007/08/31 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE 4:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | |
| | | | mm | INCH | DRAWN BY ELO | DATE 2006/04/13 | TITLE GBX 5 PAIR BACKPLANE POWER SALES ASSEMBLY | | |
| | | 4 PLACES | ±---- | ±---- | CHECKED BY ELO | DATE 2006/04/13 | | | |
| | | 3 PLACES | ±---- | ±---- | APPROVED BY CUNNINGHAM | DATE 2006/04/17 | MOLEX INCORPORATED | | |
| 2 PLACES | ±---- | ±---- | ANGULAR ±---- | | MATERIAL NO. SEE CHART | DOCUMENT NO. SD-75510-001 | SHEET NO. 2 OF 4 | | |
| 1 PLACE | ±---- | ±---- | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SIZE B | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |

9 8 7 6 5 4 3 2 1

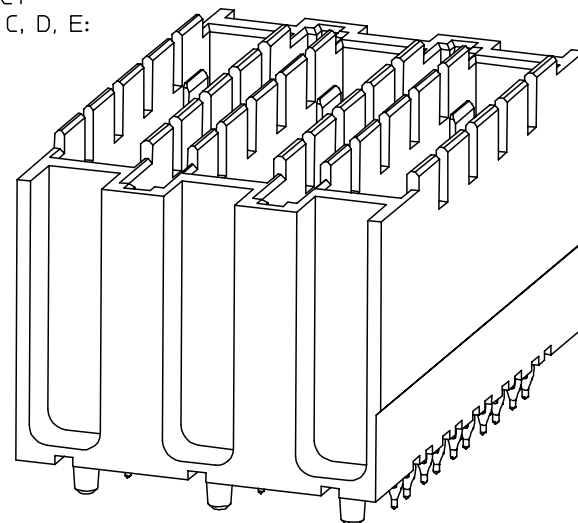
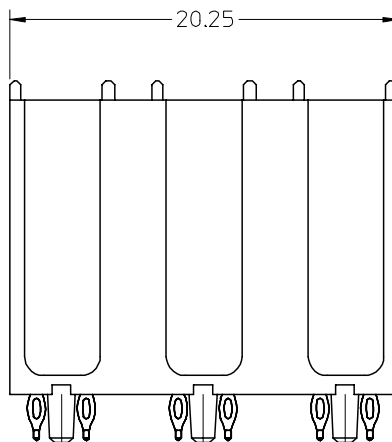
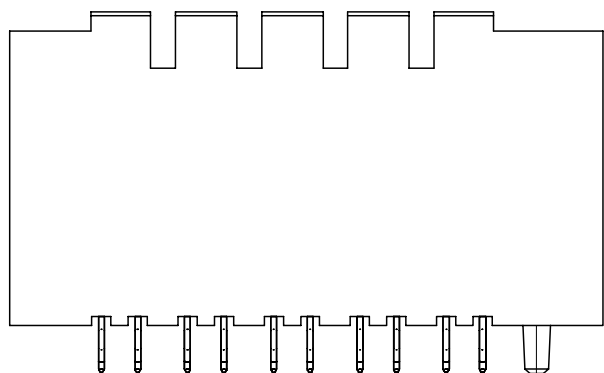
10 9 8 7 6 5 4 3 2 1



3-UP ASSEMBLY PART NUMBER

7 5 5 3 A - B C D E
 - TIN/LEAD PLATED PRODUCT -
 FOR EACH ROW LOCATION A, B, C, D, E:
 0 = VOID
 4 = 4.5 mm WIPE
 6 = 6.0 mm WIPE
 7 = 7.5 mm WIPE
 - LEAD-FREE PLATED PRODUCT -
 FOR EACH ROW LOCATION A, B, C, D, E:
 0 = VOID
 2 = 4.5 mm WIPE
 3 = 6.0 mm WIPE
 5 = 7.5 mm WIPE

SEE NOTE 4.



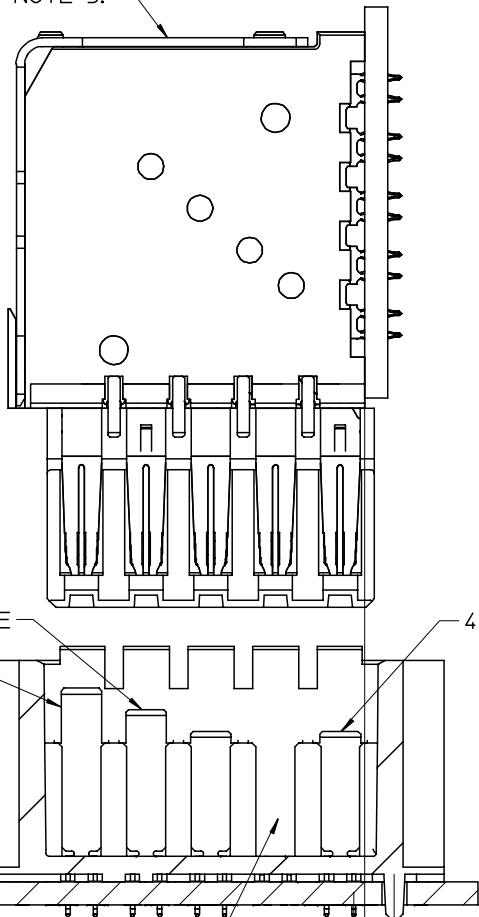
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| | | | | | | | | |
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| SEE SHEET ONE EC NO: UCP2008-0426 DRW: J.C. STEWART 2007/08/29 CHKD: J.B. INGHAM 2007/08/30 APPR: J.B. INGHAM 2007/08/31 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | |
| | | mm | INCH | MM ONLY | 4:1 | METRIC | | |
| | | 4 PLACES | ± --- | ± --- | DRAWN BY | DATE | TITLE | |
| | | 3 PLACES | ± --- | ± --- | ELO | 2006/04/13 | GBX 5 PAIR BACKPLANE POWER SALES ASSEMBLY | |
| 2 PLACES | ± --- | ± --- | CHECKED BY | DATE | | | | |
| 1 PLACE | ± --- | ± --- | ELO | 2006/04/13 | MOLEX INCORPORATED | | | |
| ANGULAR ± ---° | | APPROVED BY | | DATE | | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | CUNNINGHAM | | 2006/04/17 | DOCUMENT NO. | | SHEET NO. | |
| | | SEE CHART | | SD-75510-001 | | 3 OF 4 | | |
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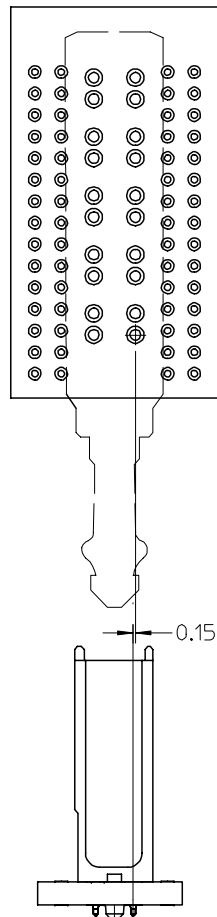
9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

SEE NOTE 5.

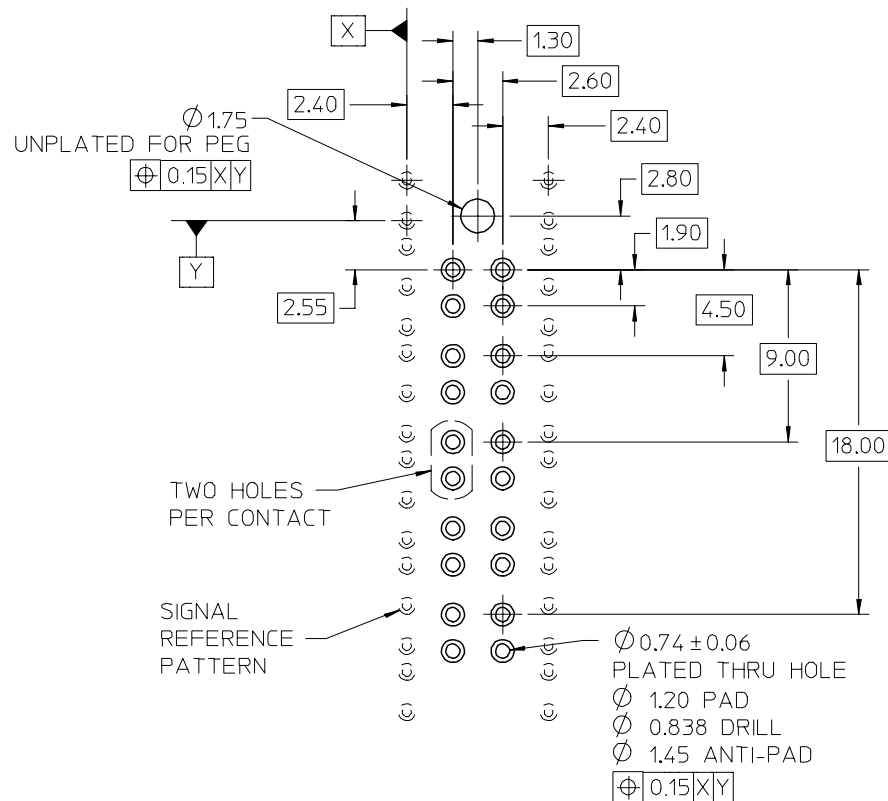


DC BOARD EDGE TO CENTERLINE OF BP TAIL



HOLE PATTERN FOR 1-UP ASSEMBLY

- 1.) ADD 7.40 FROM CENTERLINES OF PEG FOR MULTIPLE UP ASSEMBLIES.
- 2.) ADD 5.55 FROM CENTERLINE TO CENTERLINE OF PEG FOR INDIVIDUAL POWER MODULES STACKED NEXT TO EACH OTHER.



| SEE SHEET ONE EC NO: UCP2008-0426 DRWN: STEWART 2007/08/29 CHKD: BINGHAM 2007/08/30 APPR: BINGHAM 2007/08/31 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE 4:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | | | | | | | | | | | | | | |
|--|-------------------------------|---|-------|--------------------------------------|----|---------------------|------------------------------|------------------------|-------|----------|-------|-------|----------|-------|-------|---------|-------|-------|----------------------------|--|--|--|--|
| | | <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>±----</td> <td>±----</td> </tr> <tr> <td>3 PLACES</td> <td>±----</td> <td>±----</td> </tr> <tr> <td>2 PLACES</td> <td>±----</td> <td>±----</td> </tr> <tr> <td>1 PLACE</td> <td>±----</td> <td>±----</td> </tr> </tbody> </table> | | | mm | INCH | 4 PLACES | ±---- | ±---- | 3 PLACES | ±---- | ±---- | 2 PLACES | ±---- | ±---- | 1 PLACE | ±---- | ±---- | DRAWN BY ELO 2006/04/13 | | TITLE GBX 5 PAIR BACKPLANE POWER SALES ASSEMBLY | | |
| | | | mm | INCH | | | | | | | | | | | | | | | | | | | |
| | | 4 PLACES | ±---- | ±---- | | | | | | | | | | | | | | | | | | | |
| 3 PLACES | ±---- | ±---- | | | | | | | | | | | | | | | | | | | | | |
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| ANGULAR ±---- | | CHECKED BY ELO 2006/04/13 | | APPROVED BY CUNNINGHAM 2006/04/17 | | | MATERIAL NO. SEE PREVIOUS | | | | | | | | | | | | | | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | MATERIAL NO. SEE PREVIOUS | | DOCUMENT NO. SD-75510-001 | | SHEET NO. 4 OF 4 | | | | | | | | | | | | | | | | | |

9 8 7 6 5 4 3 2 1



Стандарт Электрон Связь

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Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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С нами вы становитесь еще успешнее!

Наши контакты:

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Электронная почта: sales@st-electron.ru

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