molex®
one company › a world of innovation

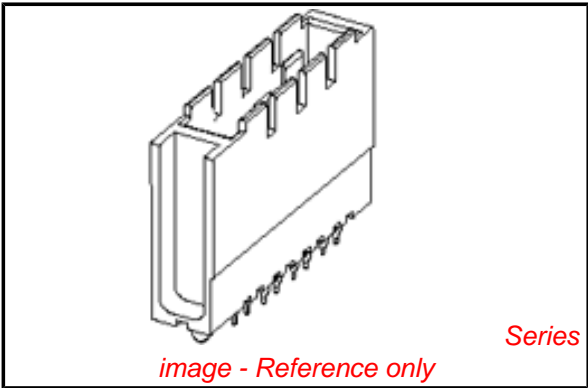|	
Part Number:	**0753413355**
Status:	**Active**
Overview:	gbx_backplane_connector_system
Description:	1.85mm by 1.85mm (.073 by .073") Pitch 4-Pair GbX® Backplane Connector System, Power Module, 12 Circuits, 1.27µm (50µ") Gold (Au), Lead Free

Documents:

Drawing (PDF)   RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179

General

Product Family	Backplane Connectors
Series	75341
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Blade Length A 6.00mm, B 6.00mm, C 4.50mm, D 4.50mm
Component Type	Power Header
Overview	gbx_backplane_connector_system
Product Name	GbX®
Style	N/A

Physical

Circuits (Loaded)	8
Circuits (maximum)	8
Circuits Detail	Rows A, B, C, & D
Color - Resin	Gray
Durability (mating cycles max)	200
First Mate / Last Break	Yes
Flammability	94V-0
Guide to Mating Part	No
Keying to Mating Part	None
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Columns	N/A
Number of Pairs	4
Number of Rows	4
Orientation	Vertical
PC Tail Length (in)	0.089 In
PC Tail Length (mm)	2.28 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)	0.073 In
Pitch - Mating Interface (mm)	1.85 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

Series
image - Reference only

Search Parts in this Series
75341Series

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® 4 pair 1- Up Power Module	0622022005

Plating min: Termination (µm)	0.75
Polarized to PCB	Yes
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	6A
Data Rate	8.0 Gbps
Real Signals (per 25mm)	0
Shielded	No
Voltage - Maximum	120V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Sales Drawing	SD-75341-001

GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/13/2010

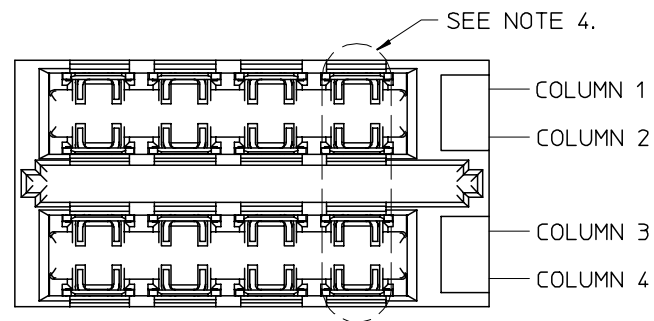# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION
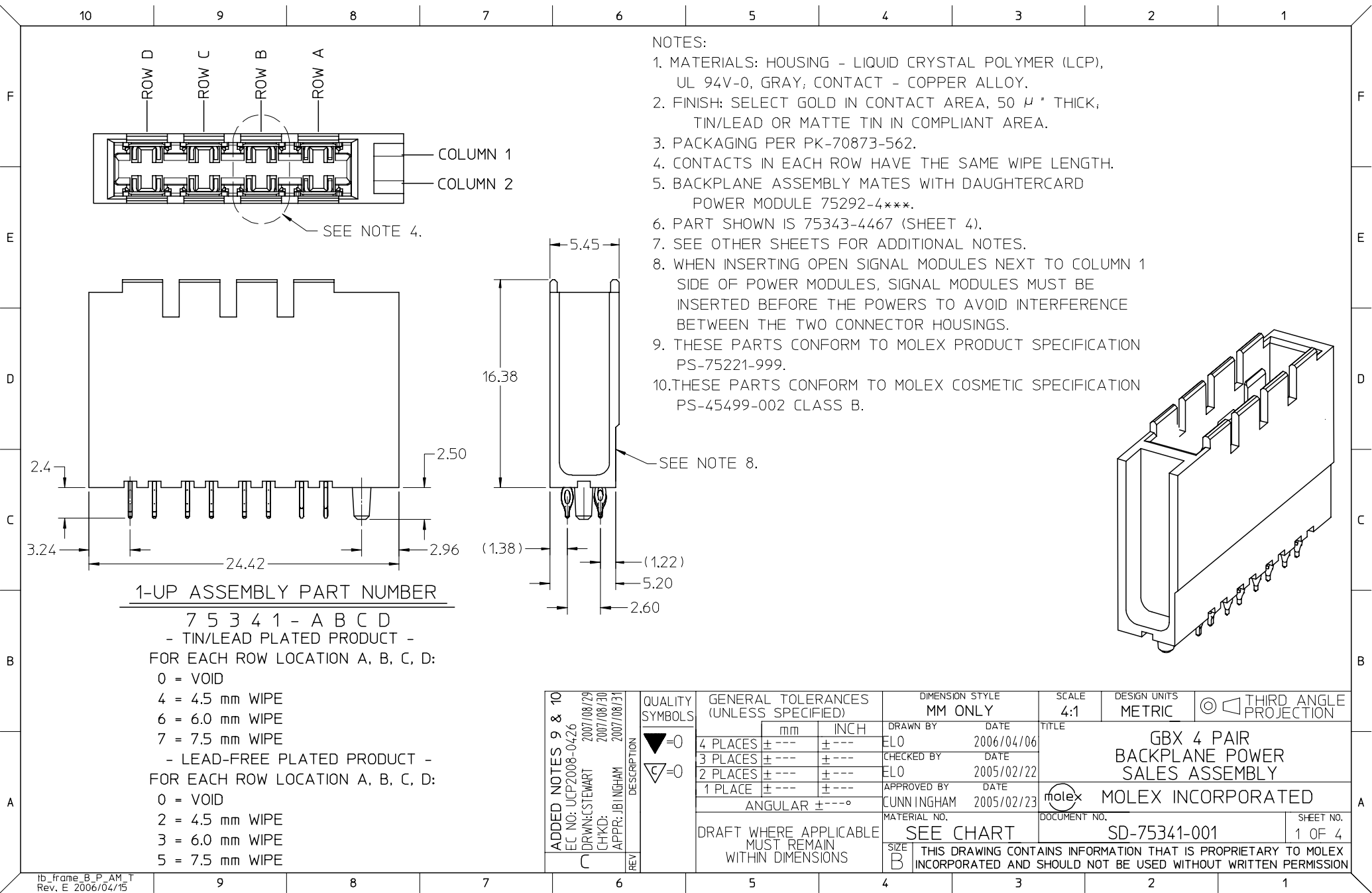
NOTES:
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP),
   UL 94V-0, GRAY; CONTACT - COPPER ALLOY.
2. FINISH: SELECT GOLD IN CONTACT AREA, 50 μ" THICK;
   TIN/LEAD OR MATTE TIN IN COMPLIANT AREA.
3. PACKAGING PER PK-70873-562.
4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
5. BACKPLANE ASSEMBLY MATES WITH DAUGHTERCARD
   POWER MODULE 75292-4***.
6. PART SHOWN IS 75343-4467 (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.

ROW D
ROW C
ROW B
ROW A

COLUMN 1
COLUMN 2

SEE NOTE 4.

SEE NOTE 8.

5.45
16.38
2.50
2.4
3.24
2.96
24.42
(1.38)
(1.22)
5.20
2.60

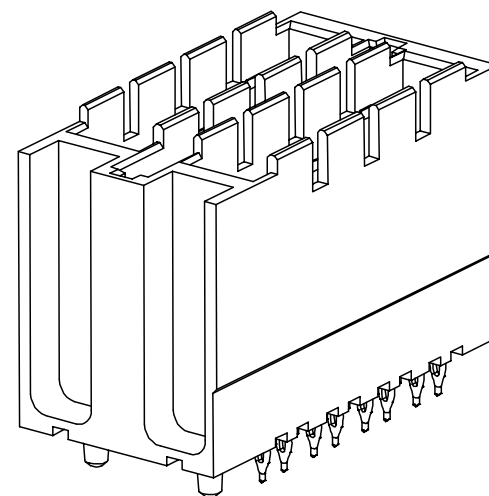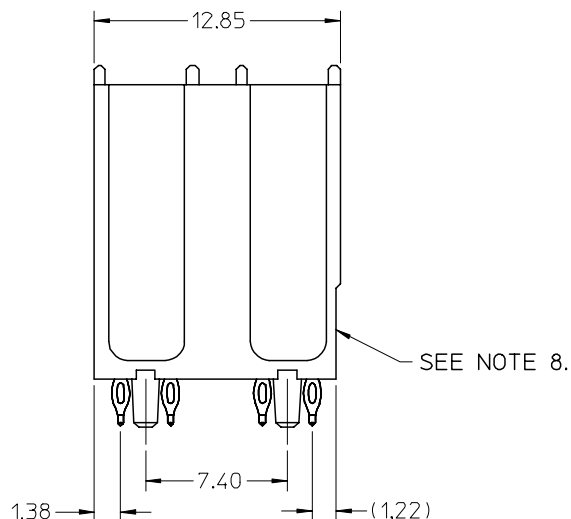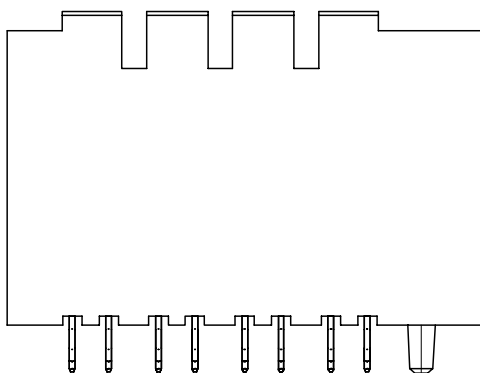1-UP ASSEMBLY PART NUMBER

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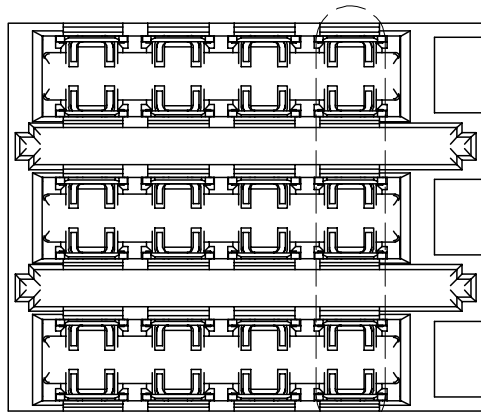FOR EACH ROW LOCATION A, B, C, D:
   0 = VOID
   2 = 4.5 mm WIPE
   3 = 6.0 mm WIPE
   5 = 7.5 mm WIPE

ADDED NOTES 9 & 10	EC NO: UCP2008-0426	DRWN:CSTEWART	2007/08/29	
		CHKD:	2007/08/30	
		APPR:JBINGHAM	2007/08/31	

REV: C

DESCRIPTION

QUALITY SYMBOLS
▼=0
☑=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±---	±---
3 PLACES	±---	±---
2 PLACES	±---	±---
1 PLACE	±---	±---
ANGULAR	±---°	

DIMENSION STYLE
MM ONLY

SCALE
4:1

DESIGN UNITS
METRIC

◎ ◁ THIRD ANGLE PROJECTION

DRAWN BY	DATE
ELO	2006/04/06
CHECKED BY	DATE
ELO	2005/02/22
APPROVED BY	DATE
CUNNINGHAM	2005/02/23

TITLE
GBX 4 PAIR
BACKPLANE POWER
SALES ASSEMBLY

molex MOLEX INCORPORATED

MATERIAL NO.
SEE CHART

DOCUMENT NO.
SD-75341-001

SHEET NO.
1 OF 4

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SIZE
B

tb_frame_B_P_AM_T
Rev. E 2006/04/15

SEE NOTE 4.

COLUMN 1

COLUMN 2

COLUMN 3

COLUMN 4

2-UP ASSEMBLY PART NUMBER
75342 - A B C D
- TIN/LEAD PLATED PRODUCT -
FOR EACH ROW LOCATION A, B, C, D:
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:
0 = VOID
2 = 4.5 mm WIPE
3 = 6.0 mm WIPE
5 = 7.5 mm WIPE

12.85

7.40

1.38

(1.22)

SEE NOTE 8.

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

QUALITY SYMBOLS

▼=0

▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ± ---°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

SCALE
4:1

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

DRAWN BY	DATE
ELO	2006/04/06
CHECKED BY	DATE
ELO	2005/02/22
APPROVED BY	DATE
CUNNINGHAM	2005/02/23

TITLE
GBX 4 PAIR
BACKPLANE POWER
SALES ASSEMBLY

molex   MOLEX INCORPORATED

MATERIAL NO.
SEE CHART

DOCUMENT NO.
SD-75341-001

SHEET NO.
2 OF 4

SIZE
B

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Rev. E 2006/04/15

COLUMN 1
COLUMN 2
COLUMN 3
COLUMN 4
COLUMN 5
COLUMN 6

SEE NOTE 4.

3-UP ASSEMBLY PART NUMBER

7 5 3 4 3 - A B C D

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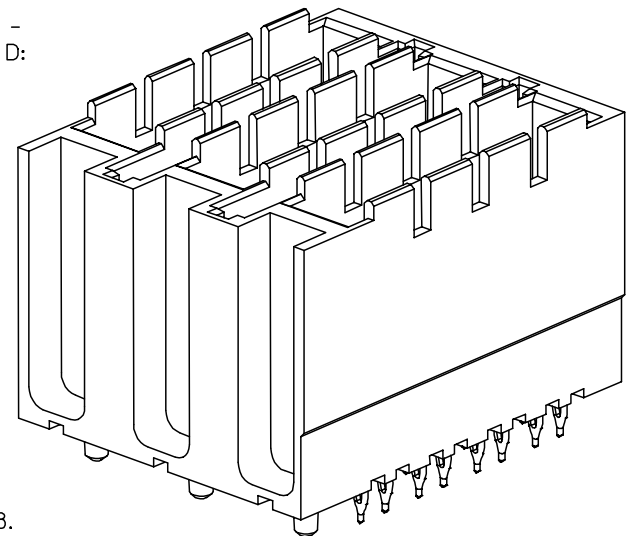7 = 7.5 mm WIPE
- LEAD-FREE PLATED PRODUCT -
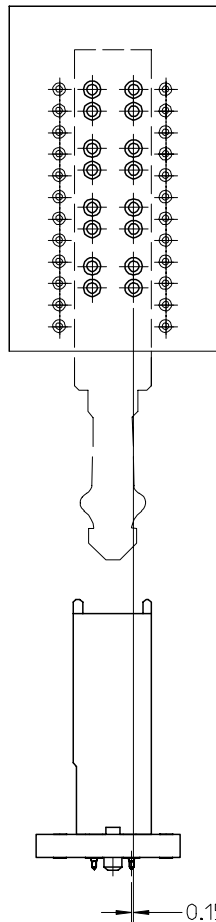FOR EACH ROW LOCATION A, B, C, D:
0 = VOID
2 = 4.5 mm WIPE
3 = 6.0 mm WIPE
5 = 7.5 mm WIPE

SEE NOTE 8.

|←——— 14.80 ———→|

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

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ± ---°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

SCALE
4:1

DESIGN UNITS
METRIC

◎ ◁ THIRD ANGLE PROJECTION

DRAWN BY	DATE
ELO	2006/04/06
CHECKED BY	DATE
ELO	2005/02/22
APPROVED BY	DATE
CUNNINGHAM	2005/02/23

TITLE
GBX 4 PAIR
BACKPLANE POWER
SALES ASSEMBLY

molex   MOLEX INCORPORATED

MATERIAL NO.
SEE CHART

DOCUMENT NO.
SD-75341-001

SHEET NO.
3 OF 4

SIZE
B

SEE NOTE 5.

HOLE PATTERN FOR 1-UP ASSEMBLY

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

1.30

2.60

X

2.40

2.40

∅1.75
UNPLATED FOR PEG
⌖ ∅0.15 X Y

Y

SIGNAL ROW A

2.80

1.90

4.50

SIGNAL REFERENCE
PATTERN

6.0 mm WIPE
7.5 mm WIPE
4.5 mm WIPE

TWO HOLES
PER CONTACT

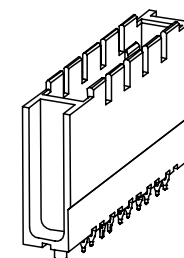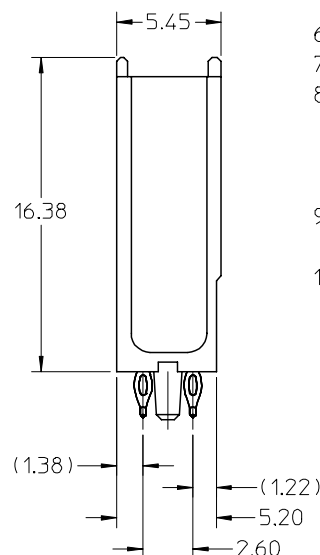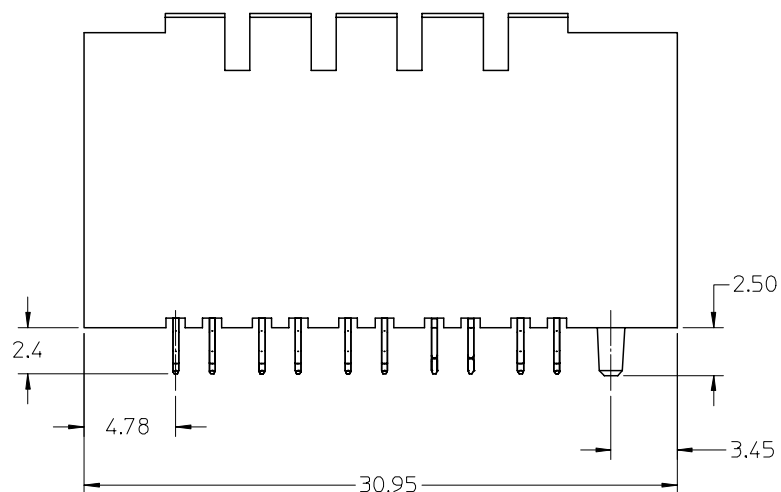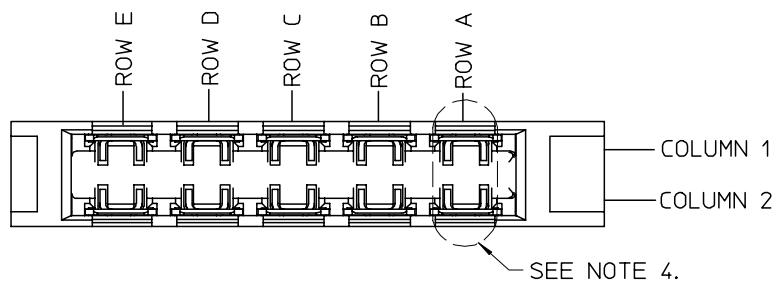∅0.74±0.06
PLATED THRU HOLE
∅1.20 PAD
∅0.838 DRILL
∅1.45 ANTI-PAD
⌖ ∅0.15 X Y

0.76
DC BOARD EDGE TO
CENTERLINE OF BP TAIL

0.15

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
▼=0		mm	INCH	DRAWN BY ELO	DATE 2006/04/06	TITLE	GBX 4 PAIR BACKPLANE POWER SALES ASSEMBLY	
	4 PLACES	± ---	± ---					
▽=0	3 PLACES	± ---	± ---	CHECKED BY ELO	DATE 2005/02/22			
	2 PLACES	± ---	± ---					
	1 PLACE	± ---	± ---	APPROVED BY CUNNINGHAM	DATE 2005/02/23	molex	MOLEX INCORPORATED	
	ANGULAR ±---°			MATERIAL NO. SEE PREVIOUS		DOCUMENT NO. SD-75341-001		SHEET NO. 4 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			

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 SPECIFICATON PS-45499-002 CLASS B.

ROW E
ROW D
ROW C
ROW B
ROW A

COLUMN 1
COLUMN 2

SEE NOTE 4.

5.45
16.38
2.50
2.4
4.78
3.45
30.95
(1.38)
(1.22)
5.20
2.60

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

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±---	±---
3 PLACES	±---	±---
2 PLACES	±---	±---
1 PLACE	±---	±---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

SCALE
4:1

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

DRAWN BY	DATE
ELO	2006/04/13
CHECKED BY	DATE
ELO	2006/04/13
APPROVED BY	DATE
CUNNINGHAM	2006/04/17

TITLE
GBX 5 PAIR
BACKPLANE POWER
SALES ASSEMBLY

molex MOLEX INCORPORATED

MATERIAL NO.
SEE CHART

DOCUMENT NO.
SD-75510-001

SHEET NO.
1 OF 4

SIZE B

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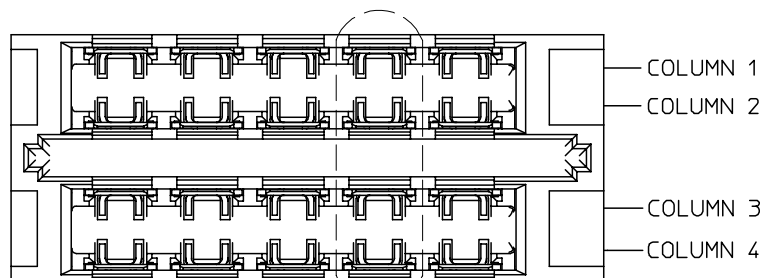- LEAD-FREE PLATED PRODUCT -
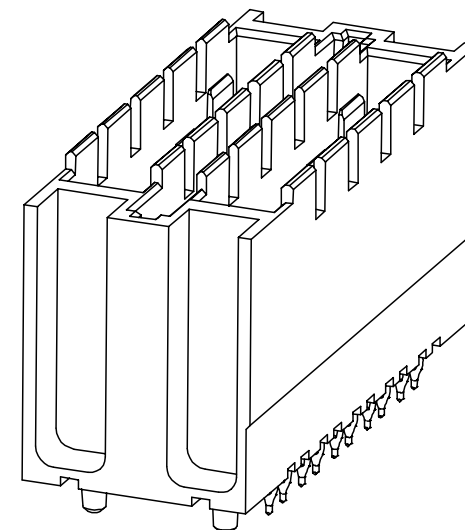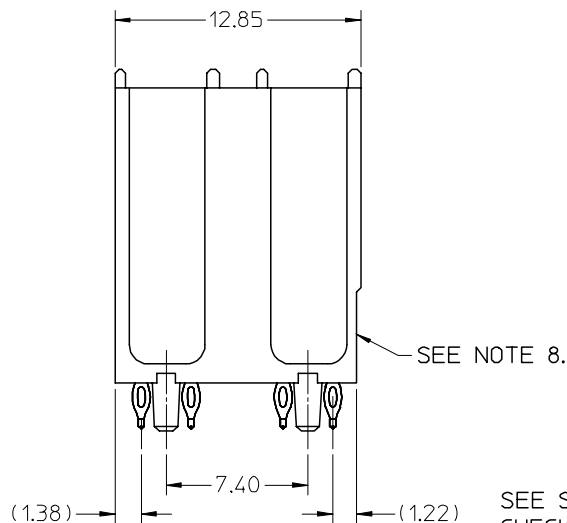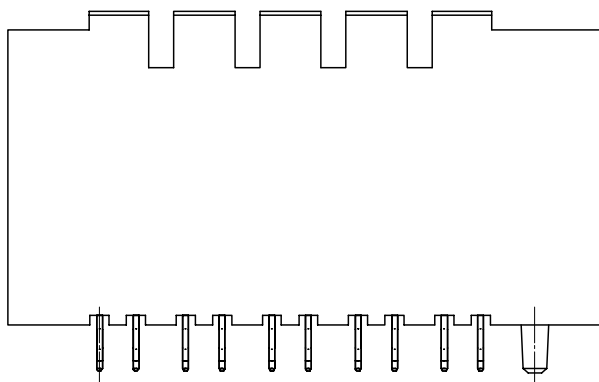FOR EACH ROW LOCATION A, B, C, D, E:
0 = VOID
2 = 4.5 mm WIPE
3 = 6.0 mm WIPE
5 = 7.5 mm WIPE

COLUMN 1
COLUMN 2
COLUMN 3
COLUMN 4

SEE NOTE 4.

12.85

SEE NOTE 8.

7.40

(1.38)   (1.22)

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

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ± ---°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

SCALE
4:1

DESIGN UNITS
METRIC

◎ ◁ THIRD ANGLE PROJECTION

DRAWN BY	DATE
ELO	2006/04/13
CHECKED BY	DATE
ELO	2006/04/13
APPROVED BY	DATE
CUNNINGHAM	2006/04/17

TITLE
GBX 5 PAIR
BACKPLANE POWER
SALES ASSEMBLY

molex   MOLEX INCORPORATED

MATERIAL NO.
SEE CHART

DOCUMENT NO.
SD-75510-001

SHEET NO.
2 OF 4

SIZE
B

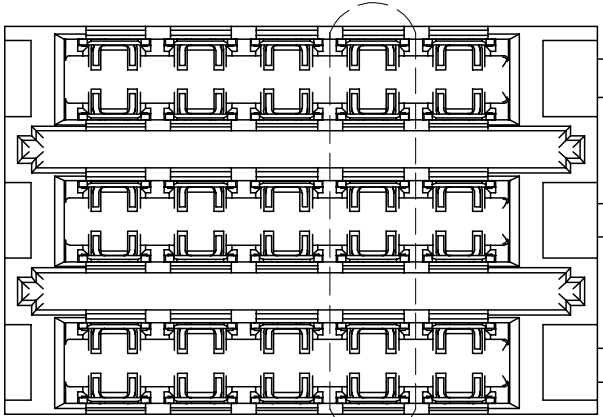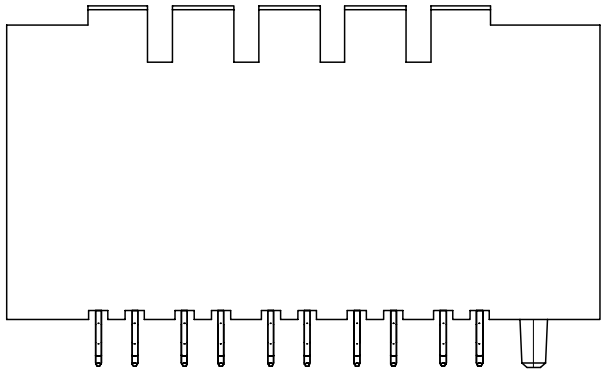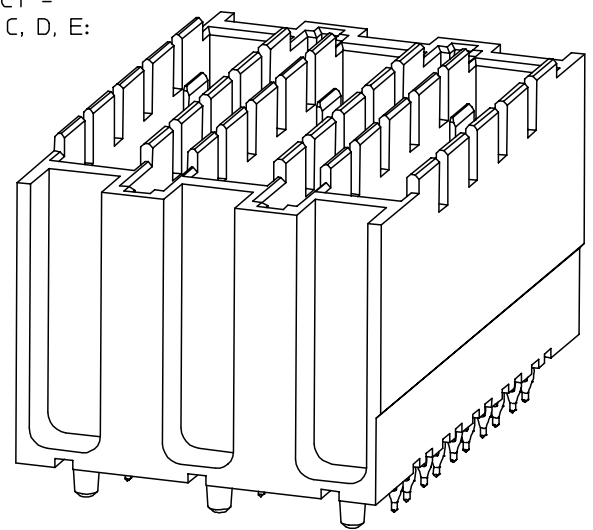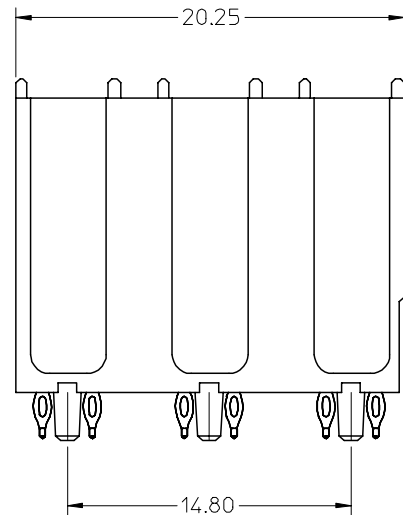tb_frame_B_P_AM_T
Rev. E 2006/04/15

COLUMN 1
COLUMN 2
COLUMN 3
COLUMN 4
COLUMN 5
COLUMN 6

SEE NOTE 4.

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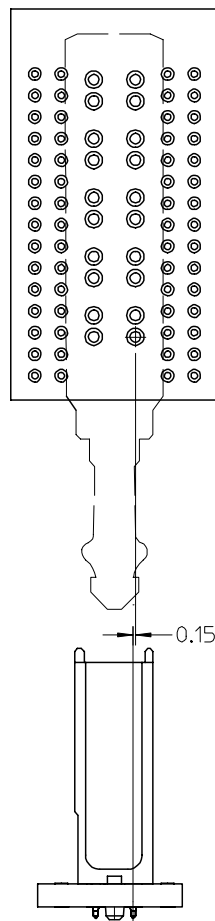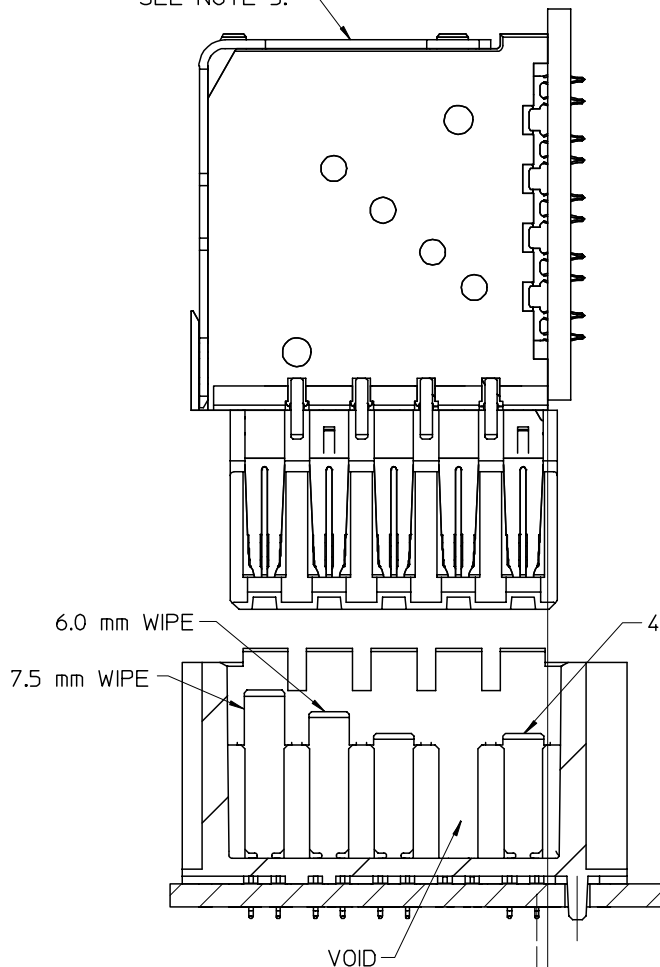0 = VOID
2 = 4.5 mm WIPE
3 = 6.0 mm WIPE
5 = 7.5 mm WIPE

20.25

14.80

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

QUALITY SYMBOLS

▼=0
▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ± ---°		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

SCALE
4:1

DESIGN UNITS
METRIC

⊚ ◁ THIRD ANGLE PROJECTION

DRAWN BY: ELO   DATE 2006/04/13
CHECKED BY: ELO   DATE 2006/04/13
APPROVED BY: CUNNINGHAM   DATE 2006/04/17

TITLE
GBX 5 PAIR
BACKPLANE POWER
SALES ASSEMBLY

molex   MOLEX INCORPORATED

MATERIAL NO.
SEE CHART

DOCUMENT NO.
SD-75510-001

SHEET NO.
3 OF 4

SIZE
B

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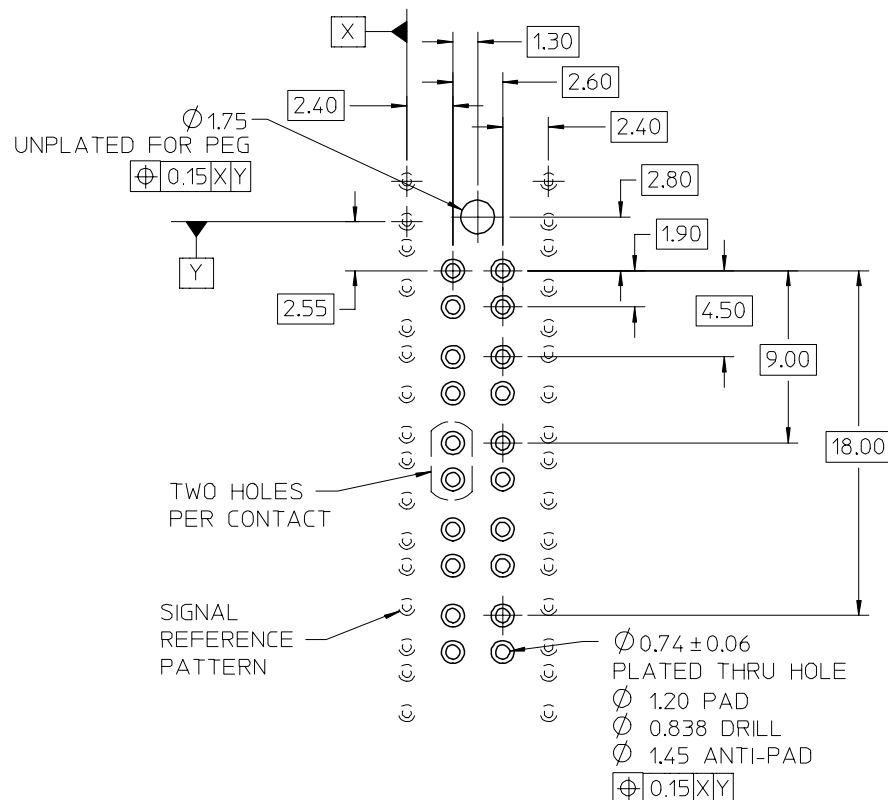INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

tb_frame_B_P_AM_T
Rev. E 2006/04/15

SEE NOTE 5.

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.

X

| 1.30 |
| 2.60 |
| 2.40 |
| 2.40 |
| 2.80 |
| 1.90 |
| 2.55 |
| 4.50 |
| 9.00 |
| 18.00 |

$\emptyset$1.75
UNPLATED FOR PEG

$\oplus$ | 0.15 | X | Y

Y

TWO HOLES
PER CONTACT

SIGNAL
REFERENCE
PATTERN

$\emptyset$ 0.74 ± 0.06
PLATED THRU HOLE
$\emptyset$ 1.20 PAD
$\emptyset$ 0.838 DRILL
$\emptyset$ 1.45 ANTI-PAD

$\oplus$ | 0.15 | X | Y

6.0 mm WIPE

4.5 mm WIPE

7.5 mm WIPE

VOID

0.76

DC BOARD EDGE TO
CENTERLINE OF BP TAIL

0.15

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