



GbX Backplane Headers

For every standard, modular component comprising a GbX daughtercard receptacle assembly there is a corresponding standard GbX backplane header that is its mate. GbX headers are available in 10 and 25 column sizes with guide-end and open-end versions available. A more rugged, stand-alone guide pin can also be used which affixes to the PCB. Custom GbX backplane header pin-outs are available as required by the customer's needs with different pin heights available on the same header.

Teradyne to Molex Backplane Header Cross Chart

The last digit in the Teradyne and Molex part number sequence defines the length of the signal pin. The below examples all end in a "4" defining the 4.55 mm pin length. The other pin heights can be likewise crossed by using "3" or "5" as the last digit.

- 3 = 3.55 mm (contact wipe = 1.00 mm)
- 4 = 4.55 mm (contact wipe = 2.00 mm)
- 5 = 5.55 mm (contact wipe = 3.00 mm)

A keying position is defined by an "x" in the second to last position (number) in the Molex part number and the third to last position (letter) in the Teradyne part number. There are 8 different keying positions available.

A = 1, B = 2, C = 3, D = 4, E = 5, F = 6, G = 7, H = 8

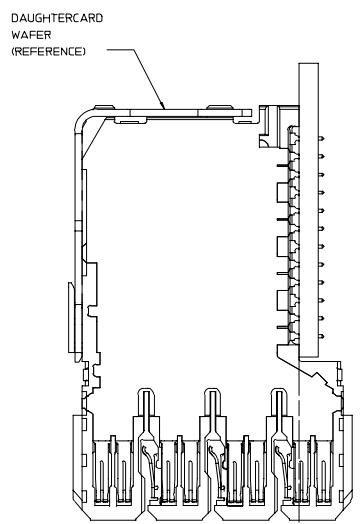
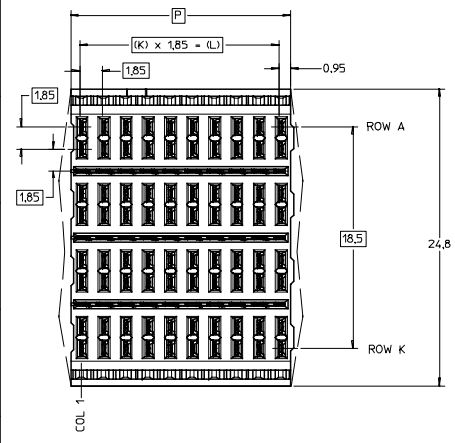
Backplane Header	Molex Part Number	Teradyne Part Number
4-Pair 7 Column Open	75235-070*	N/A
4-Pair 7 Column Left	75235-27**	N/A
4-Pair 7 Column Right	75235-47**	N/A
4-Pair 10 Column Open	75235-0104	344-6010-004
4-Pair 25 Column Open	75235-0204	344-6025-004
5-Pair 10 Column Open	75237-0104	354-6010-004
5-Pair 25 Column Open	75237-0204	354-6025-004
4-Pair 10 Column Guide Left	75235-2104	345-6110-004
4-Pair 10 Column Guide Right	75235-4104	345-6010-004
4-Pair 25 Column Guide Left	75235-2204	345-6125-004
4-Pair 25 Column Guide Right	75235-4204	345-6025-004
5-Pair 10 Column Guide Left	75237-2104	355-6110-004
5-Pair 10 Column Guide Right	75237-4104	355-6010-004
5-Pair 25 Column Guide Left	75237-2204	355-6125-004
5-Pair 25 Column Guide Right	75237-4204	355-6025-004
4-Pair 10 Column Guide & Code Left	75235-21x4	345-6110-x04
4-Pair 10 Column Guide & Code Right	75235-41x4	345-6010-x04
4-Pair 25 Column Guide & Code Left	75235-22x4	345-6125-x04
4-Pair 25 Column Guide & Code Right	75235-42x4	345-6025-x04
5-Pair 10 Column Guide & Code Left	75237-21x4	355-6110-x04
5-Pair 10 Column Guide & Code Right	75237-41x4	355-6010-x04
5-Pair 25 Column Guide & Code Left	75237-22x4	355-6125-x04
5-Pair 25 Column Guide & Code Right	75237-42x4	355-6025-x04
4-Pair "L" Series (11 pin) 5 Column Open	75465-050*	Tbd
4-Pair "L" Series (11 pin) 10 Column Open	75465-010*	Tbd

4-Pair Backplane Power	75341-xxxx	439-52xx-xx0
5-Pair Backplane Power	75510-xxxx	439-62xx-xxx
Standard Stand-Alone Guide Pin	75234-*469	564-0469-553
Wide Stand-Alone Guide Pin	75234-*470	564-0470-553

20 19 18 17 16 15 14 13 12 11 75235 9 8 7 6 5 4 3 2 1

L
K
J
I
H
G
F
E
D
C
B
A

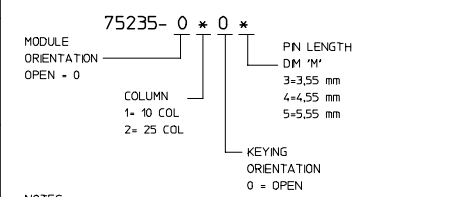
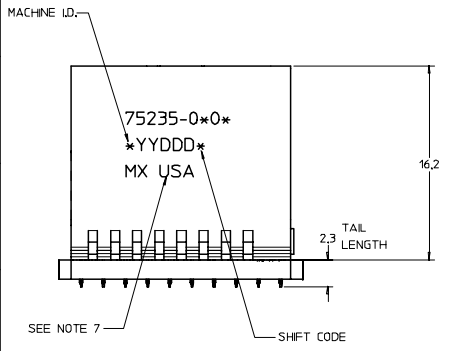
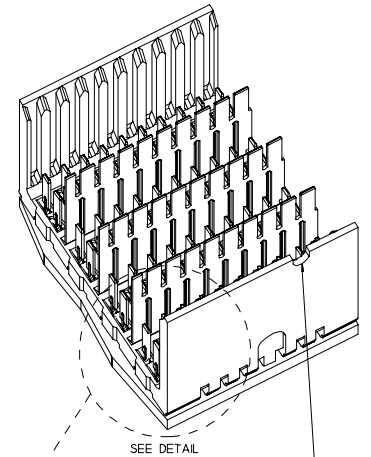
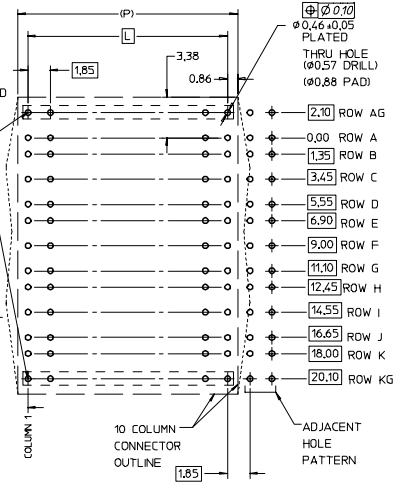
L
K
J
I
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G
F
E
D
C
B
A



BACKPLANE HOLE PATTERN (COMPONENT SIDE-10 POS SHOWN)

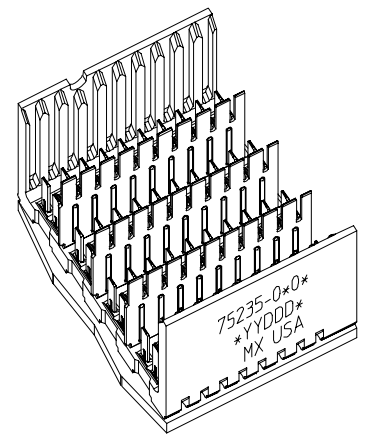
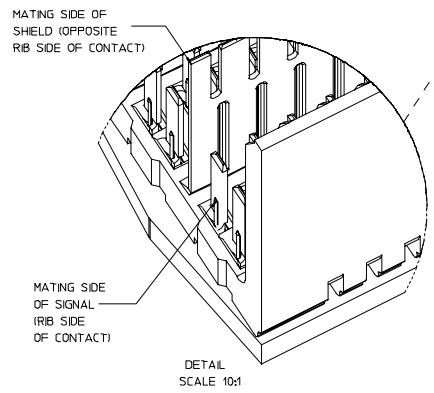
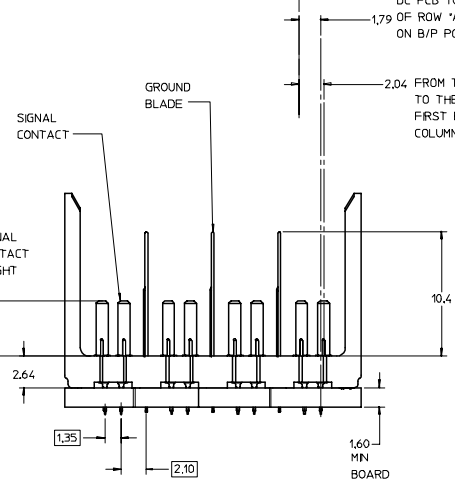
ROW AG & KG RECOMMENDED FOR ALL APPLICATIONS. THESE ROWS SHOULD BE CONNECTED TO GROUND.

OPTIONAL HOLE LOCATION FOR FREE STANDING OR MODULE LOADED GUIDE PIN
 ϕ 3.555 ±0.075



NOTES:

1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0, COLOR - BLACK, SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON PCB TAILS, NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY, CONTACT PAIRS MUST BE THE SAME LENGTH.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION PLEASE REFER TO CHART.
6. PACKAGE PER PK-xxxxx-xxxxx.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.

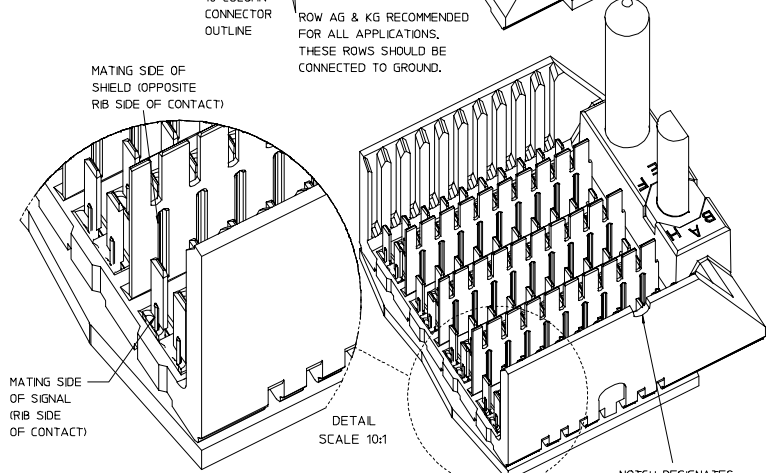
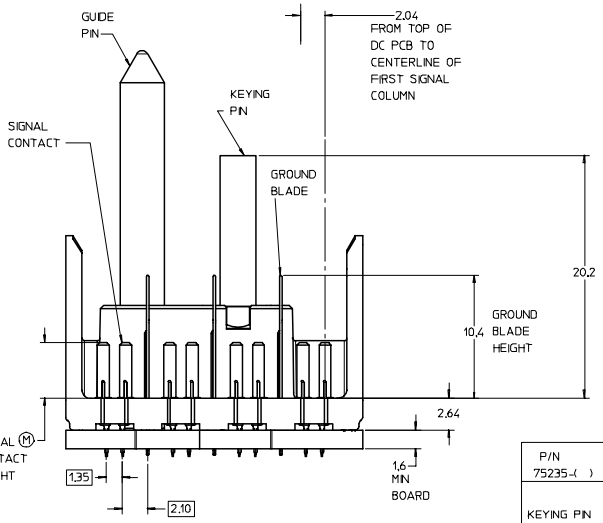
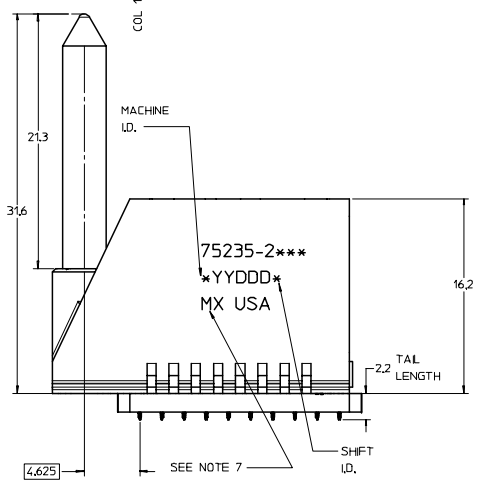
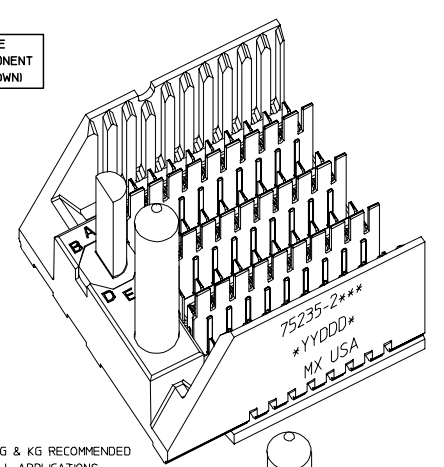
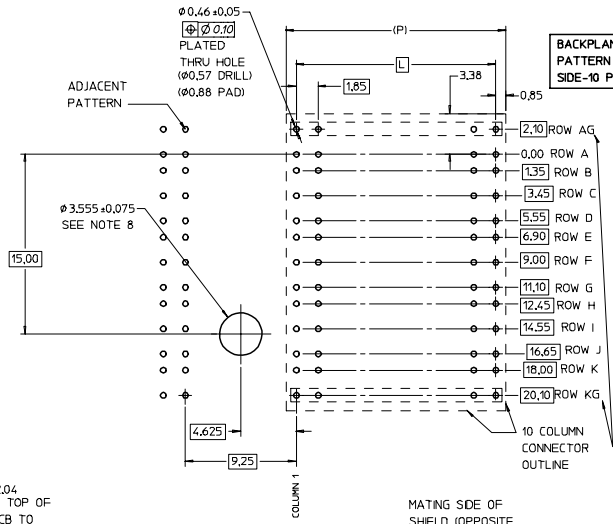
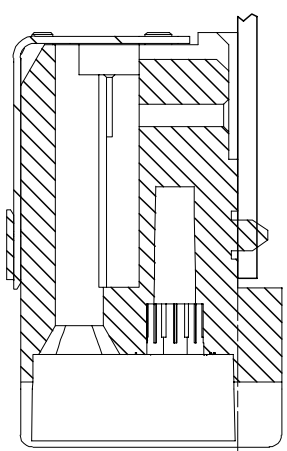
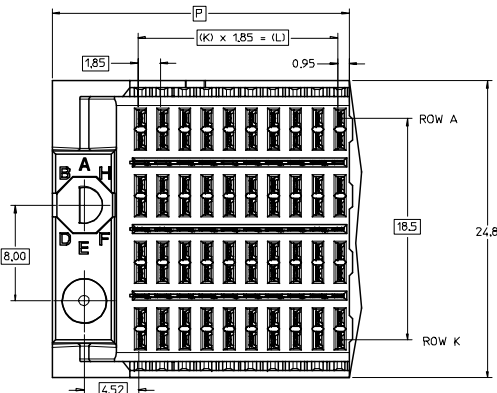


PART NUMBER TABLE				
ASSY PART NO.	K	L	P	TOTAL NO. OF DIFFERENTIAL PAIRS
75235-010*	9	16,65	18,35	40
75235-020*	24	44,40	46,10	100

INITIAL RELEASE EC NO: UCP2004-1750 DRWN:NMARTIN 2004/04/02 CHKD:SPEED 2004/04/02 APPR:CBIXLER 2004/04/05	QUALITY SYMBOLS -0 -0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
		4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±--- ±--- 1 PLACE ±--- ±---	mm	INCH	DIMENSION STYLE MM ONLY	TITLE GBX BACKPLANE 4 PAIR OPEN END SALES ASSY	
A	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHECKED BY SREED 2003/04/25	DATE 2003/04/25	MATERIAL NO. SEE CHART DOCUMENT NO. SD-75235-010	
				APPROVED BY CBIXLER 2003/04/25	DATE 2003/04/25	SHEET NO. 1 OF 1	

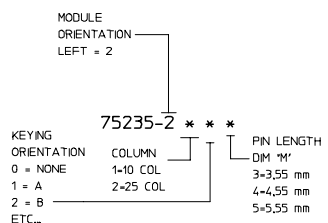
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

20 19 18 17 16 15 14 13 12 11 75235 9 8 7 6 5 4 3 2 1



PART NUMBER TABLE				
ASSY PART NO.	K	L	P	TOTAL NO. OF DIFFERENTIAL PAIRS
75235-21**	9	16.65	24.78	40
75235-22**	24	44.60	52.53	100

- NOTES:
1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0, COLOR - BLACK, SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
 2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON PCB TAILS, NICKEL (Ni) OVERALL.
 3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
 4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY, CONTACT PAIRS MUST BE THE SAME LENGTH.
 5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION PLEASE REFER TO CHART.
 6. PACKAGE PER PK-xxxxxx-xxxxx.
 7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.
 8. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR ADDITIONAL GUIDE PIN SUPPORT, SEE DRAWING XXXXX-#### FOR DETAIL & LOCATION.

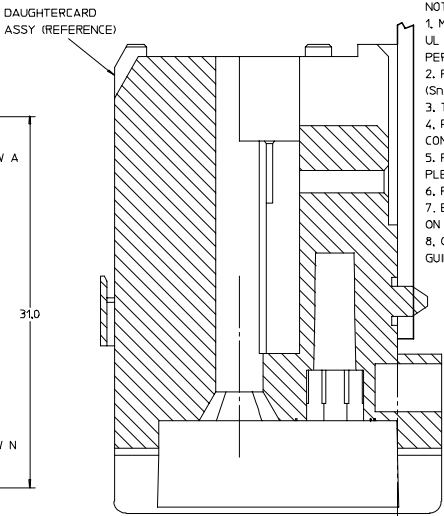
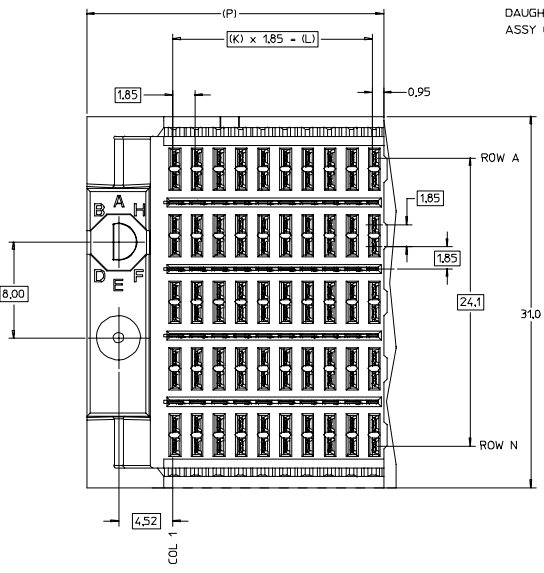


P/N	--*0*	--*1*	--*2*	--*3*	--*4*	--*5*	--*6*	--*7*	--*8*
75235(-)	0	A	B	C	D	E	F	G	H

INITIAL RELEASE	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
EC NO: UCP2004-1750	DRWN:NMARTIN 2004/04/02	mm INCH	DIMENSION STYLE MM ONLY	TITLE	GBX BACKPLANE 4 PAIR LEFT END SALES ASSY	
CHKD:SPREED 2004/04/02	APPR:CBIXLER 2004/04/05	4 PLACES ±	DRAWN BY NMARTIN	DATE 2003/10/22		
		3 PLACES ±	CHECKED BY SREED	DATE 2003/10/22		
		2 PLACES ±	APPROVED BY CBIXLER	DATE 2003/10/22		
		1 PLACE ±	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-75235-210	SHEET NO. 1 OF 1
		ANGULAR ±	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		MUST REMAIN WITHIN DIMENSIONS				

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

20 19 18 17 16 15 14 13 12 11 75237 9 8 7 6 5 4 3 2 1



- NOTES:
1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL 94V-0, COLOR - BLACK, SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
 2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON PCB TAILS, NICKEL (Ni) OVERALL.
 3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
 4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY. CONTACT PAIRS MUST BE THE SAME LENGTH.
 5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION PLEASE REFER TO CHART.
 6. PACKAGE PER PK-XXXXX-XXXX.
 7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN, ON EITHER SIDE OF THE PART, OR PLACE A LABEL ON THE TUBE.
 8. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR ADDITIONAL GUIDE PIN SUPPORT. SEE DRAWING XXXXX-#### FOR DETAIL & LOCATION.

MODULE ORIENTATION
2- LEFT

75237-2***

COLUMN
1 = 10 COL
2 = 25 COL

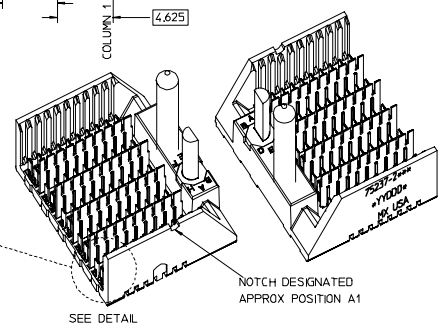
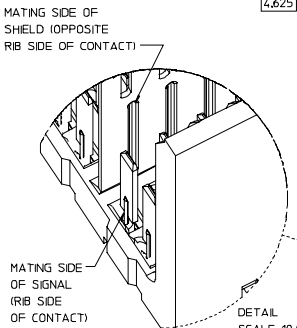
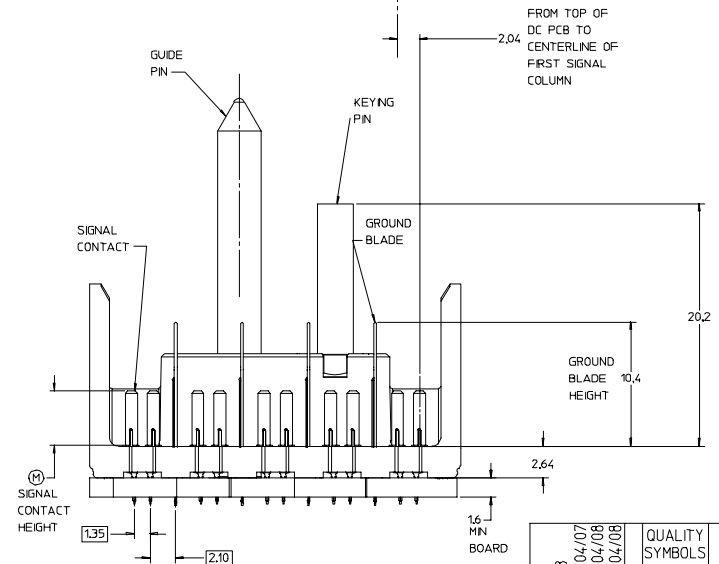
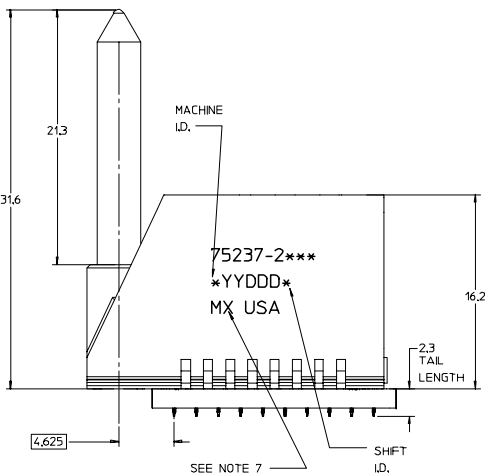
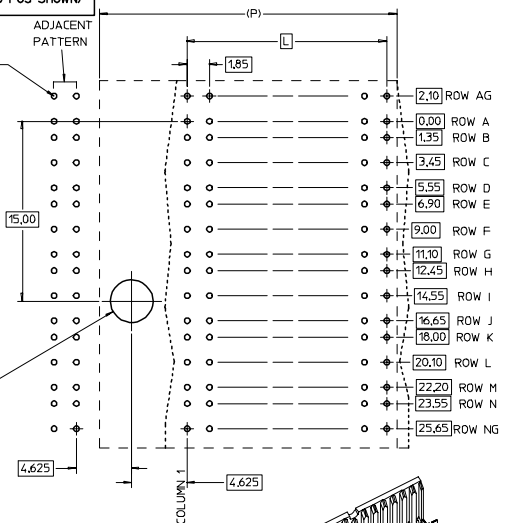
PIN LENGTH
DM "M"
3-3.55 mm
4-4.55 mm
5-5.55 mm

KEYING ORIENTATION
(SEE TABLE)

PART NUMBER TABLE				
ASSY PART NO.	K	L	P	TOTAL NO. OF DIFFERENTIAL PAIRS
75237-210*	9	16.65	24.78	50
75237-220*	24	44.40	52.53	125

BACKPLANE HOLE PATTERN (COMPONENT SIDE-10 POS SHOWN)

ROW AG & NG RECOMMENDED FOR ALL APPLICATIONS. THESE ROWS SHOULD BE CONNECTED TO GROUND.

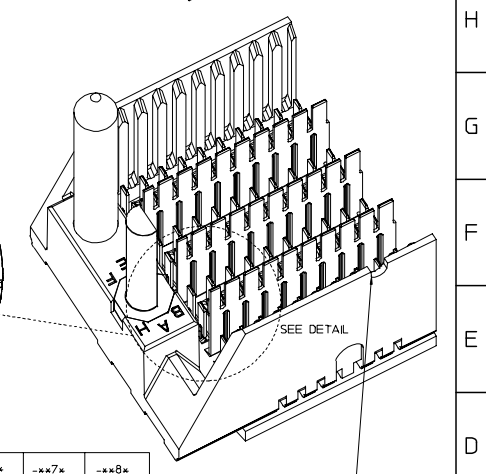
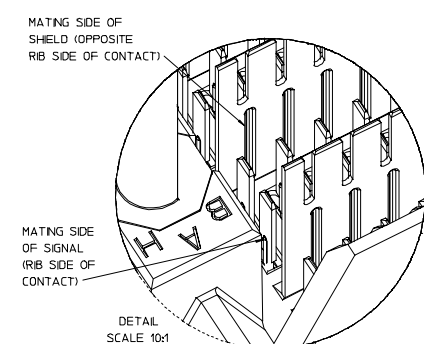
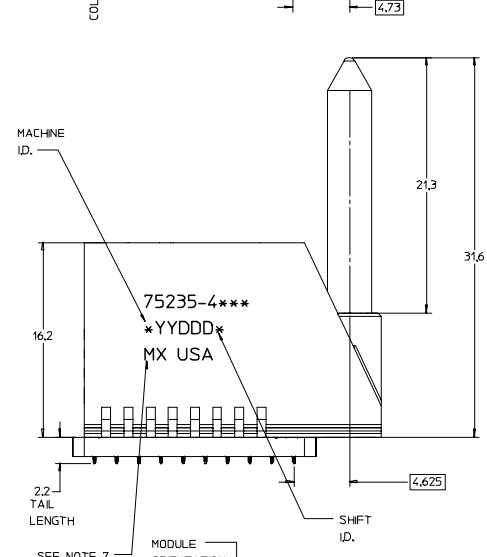
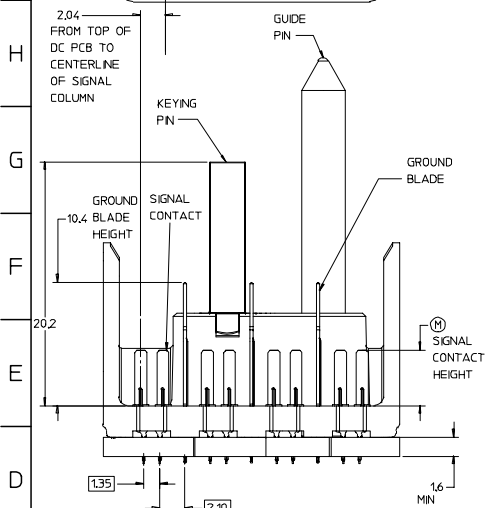
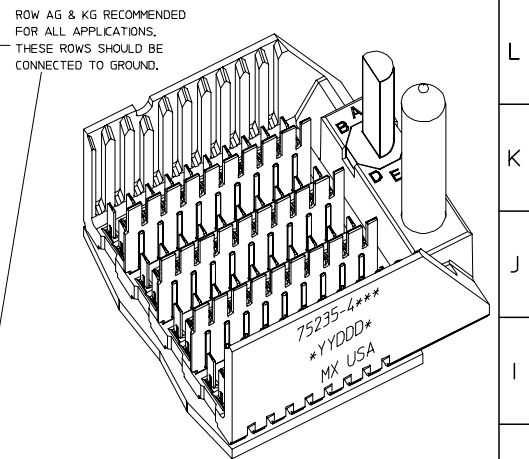
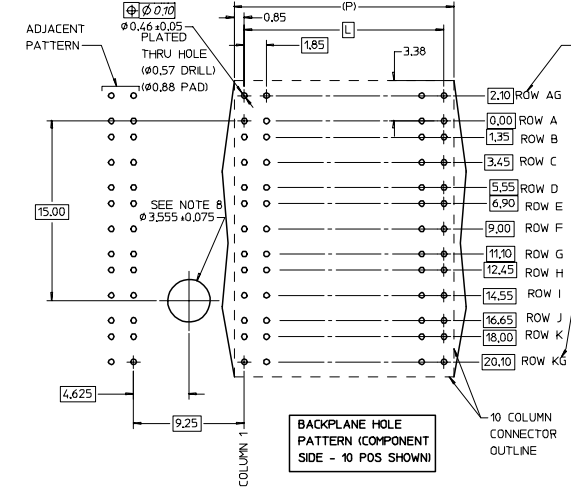
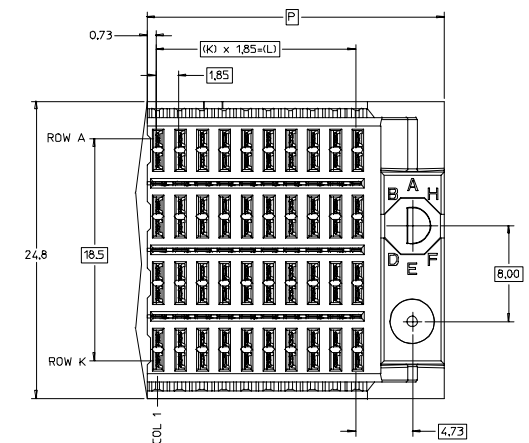
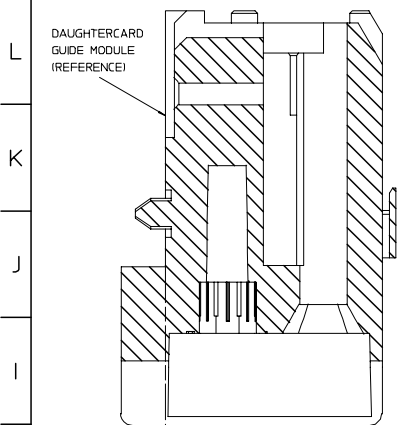


P/N 75237-1)	--*0*	--*1*	--*2*	--*3*	--*4*	--*5*	--*6*	--*7*	--*8*
KEYING PIN ORIENTATION	A	B	C	D	E	F	G	H	

INITIAL RELEASE EC NO: UCP2004-1773 DRWN:NMARTIN 2004/04/07 CHKD:SFREED 2004/04/08 APPR:CBXLER 2004/04/08	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
	<p>4 PLACES ±--- ±---</p> <p>3 PLACES ±--- ±---</p> <p>2 PLACES ±--- ±---</p> <p>1 PLACE ±--- ±---</p> <p>ANGULAR ±---°</p> <p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>	<p>mm INCH</p> <p>MM ONLY</p> <p>DRAWN BY NMARTIN DATE 2004/03/11</p> <p>CHECKED BY SFREED DATE 2004/03/11</p> <p>APPROVED BY CBXLER DATE 2004/03/11</p>	<p>MM ONLY</p> <p>DATE 2004/03/11</p> <p>DATE 2004/03/11</p>	<p>TITLE</p> <p>GBX BACKPLANE 5 PAIR LEFT END SALES ASSY</p>	<p>MATERIAL NO. SEE CHART</p> <p>DOCUMENT NO. SD-75237-210</p>	<p>SHEET NO. 1 OF 1</p>

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



NOTES:
 1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0, COLOR - BLACK, SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
 2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON PCB TAILS, NICKEL (Ni) OVERALL.
 3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
 4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY. CONTACT PAIRS MUST BE THE SAME LENGTH.
 5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION PLEASE REFER TO CHART.
 6. PACKAGE PER PK-xxxxx-xxxx.
 7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.
 8. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR ADDITIONAL GUIDE PIN SUPPORT, SEE DRAWING XXXXX-#### FOR DETAIL & LOCATION.

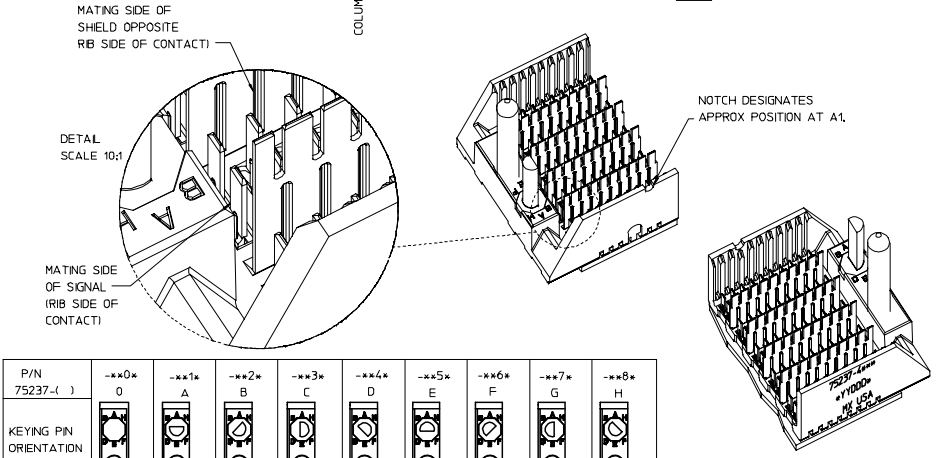
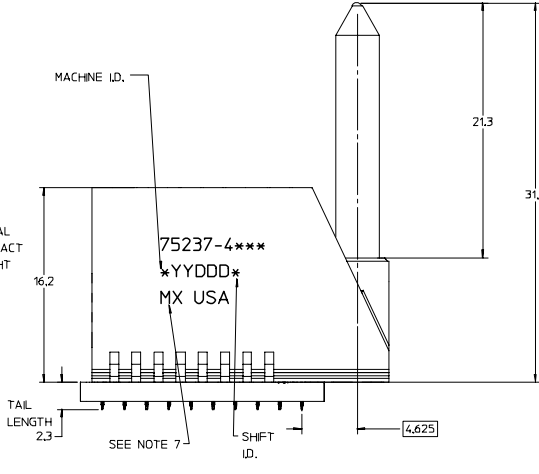
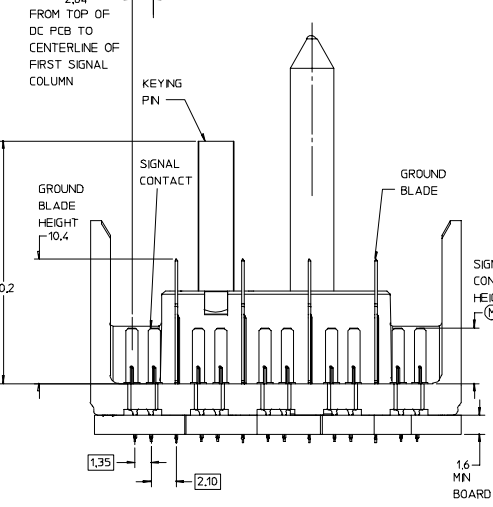
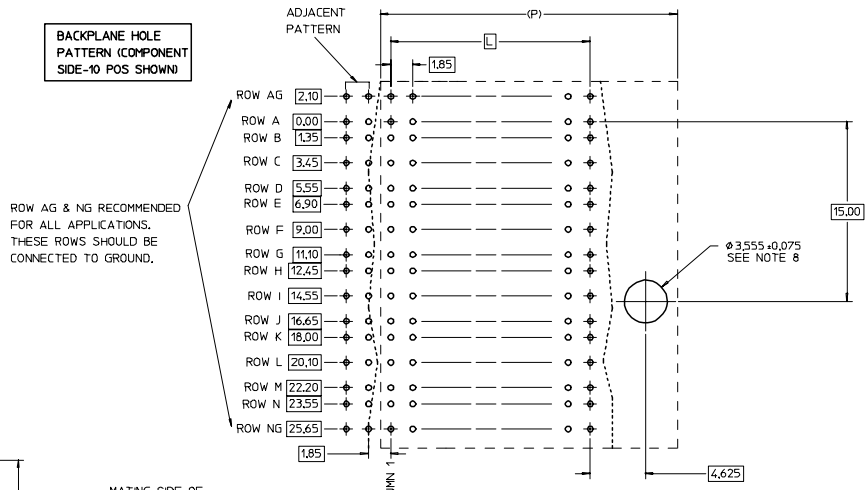
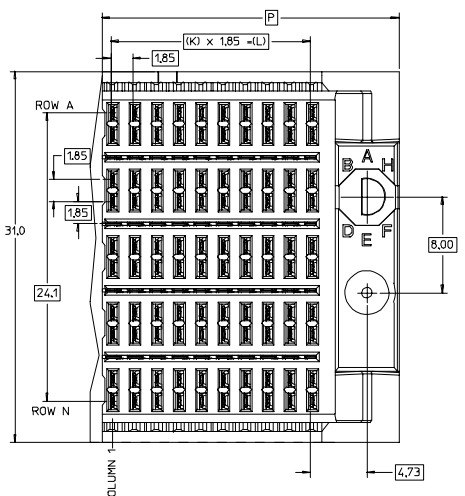
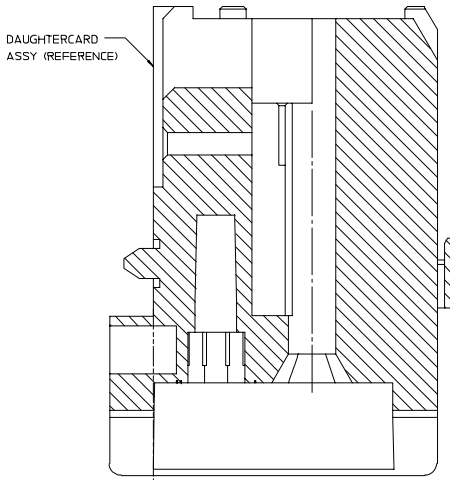
SEE NOTE 7
 MODULE ORIENTATION RIGHT - 4
 75235-4 * * * *
 KEYING ORIENTATION 1=10 COL 2=25 COL
 PIN LENGTH DIM "M"
 3-3.55 mm
 4-4.55 mm
 5-5.55 mm

PART NUMBER TABLE				
ASSY PART NO.	K	L	P	TOTAL NO. OF DIFFERENTIAL PAIRS
75235-41**	9	16.65	24.78	40
75235-42**	24	44.40	52.53	100

P/N	---0*	---1*	---2*	---3*	---4*	---5*	---6*	---7*	---8*
75235-()	0	A	B	C	D	E	F	G	H
KEYING PIN ORIENTATION									

INITIAL RELEASE EC NO: UCP2004-1750 DRWN:NMARTIN 2004/04/02 CHKD:SPREED 2004/04/02 APPR:CBXLER 2004/04/05	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
	-0 -0	4 PLACES ±	mm	DIMENSION STYLE MM ONLY	TITLE GBX BACKPLANE 4 PAIR RIGHT END SALES ASSY	
		3 PLACES ±	INCH	DRAWN BY NMARTIN DATE 2003/12/16		
	A	2 PLACES ±	1 PLACE ±	CHECKED BY SPREED DATE 2003/12/16	MOLEX INCORPORATED	
ANGULAR ±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY CBXLER DATE 2003/12/16			
REV	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-75235-410	SHEET NO. 1 OF 1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



NOTES:
 1. MATERIAL; HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0, COLOR - BLACK, SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
 2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON PCB TAILS, NICKEL (Ni) OVERALL.
 3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
 4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY, CONTACT PAIRS MUST BE THE SAME LENGTH.
 5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION PLEASE REFER TO CHART.
 6. PACKAGE PER PK-xxxxx-xxxxx.
 7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN, ON EITHER SIDE OF THE PART, OR PLACE A LABEL ON THE TUBE.
 8. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR ADDITIONAL GUIDE PIN SUPPORT. SEE DRAWING xxxxx-#### FOR DETAIL & LOCATION.

MODULE ORIENTATION
 4- RIGHT

75237-4***
 COLUMN
 1 - 10 COL
 2 - 25 COL

KEYING ORIENTATION (SEE TABLE)

PART NUMBER TABLE				
ASSY PART NO.	K	L	P	TOTAL NO. OF DIFFERENTIAL PAIRS
75237-41**	9	16.65	24.78	50
75237-42**	24	44.40	52.53	125

PIN LENGTH DIM °M
 3=3.55 mm
 4=4.55 mm
 5=5.55 mm

P/N	-xx0*	-xx1*	-xx2*	-xx3*	-xx4*	-xx5*	-xx6*	-xx7*	-xx8*
75237-(-)	0	A	B	C	D	E	F	G	H
KEYING PIN ORIENTATION									

INITIAL RELEASE	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
EC NO: UCP2004-1773	DRWN:NMARTIN 2004/04/07	CHYD:SFREED 2004/04/07	MM ONLY	MM ONLY	TITLE GBX BACKPLANE 5 PAIR RIGHT END SALES ASSY	
APPR:CBXLER 2004/04/08	APPROVED BY	CHECKED BY	DATE	DATE	MATERIAL NO. DOCUMENT NO. SHEET NO.	
DESCRIPTION	CBXLER 2004/03/16	SREED 2004/03/16	2004/03/16	2004/03/16	SEE CHART SD-75237-410 1 OF 1	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

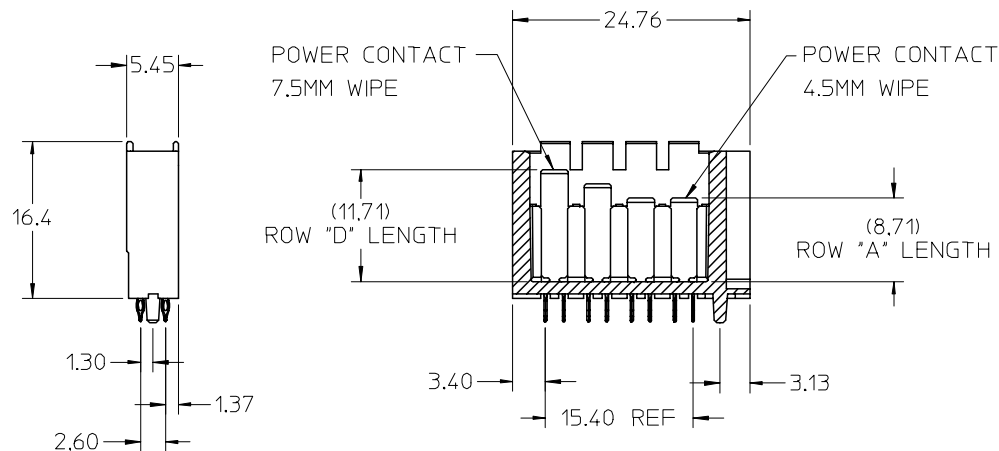
GbX BACKPLANE POWER 4 PAIR 1 UP

MATERIAL NUMBER ASSIGNMENT

75341 - * * *			
ROW "A"	ROW "B"	ROW "C"	ROW "D"
WIPE LENGTH	WIPE LENGTH	WIPE LENGTH	WIPE LENGTH
0 = VOID	0 = VOID	0 = VOID	0 = VOID
4 = 4.5MM	4 = 4.5MM	4 = 4.5MM	4 = 4.5MM
6 = 6.0MM	6 = 6.0MM	6 = 6.0MM	6 = 6.0MM
7 = 7.5MM	7 = 7.5MM	7 = 7.5MM	7 = 7.5MM



SECTION Z-Z

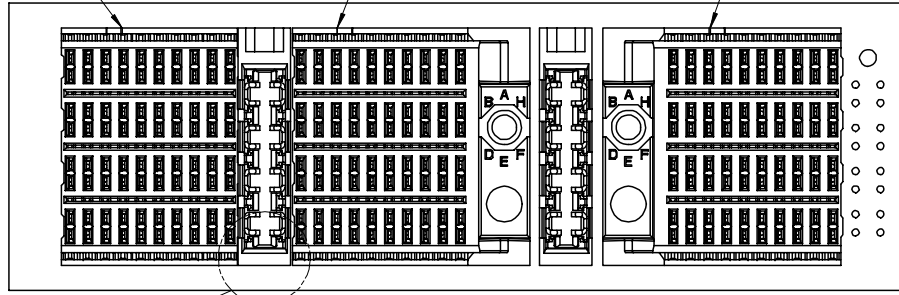


NOTES:

- MATERIAL:
HOUSING: LIQUID CRYSTAL POLYMER (LCP)
UL94V-0 RATED, COLOR: GREY
CONTACT: COPPER ALLOY
- FINISH: SELECT 50 MINCH GOLD ON MATING INTERFACE,
TIN/LEAD ON TAILS, NICKEL UNDERPLATE.
- MATES WITH 75292-4***
- EACH POWER BLADE HAS TWO COMPLIANT PINS PER COLUMN
PIN POSITION A1.1 AND A1.2 REF ONE POWER BLADE

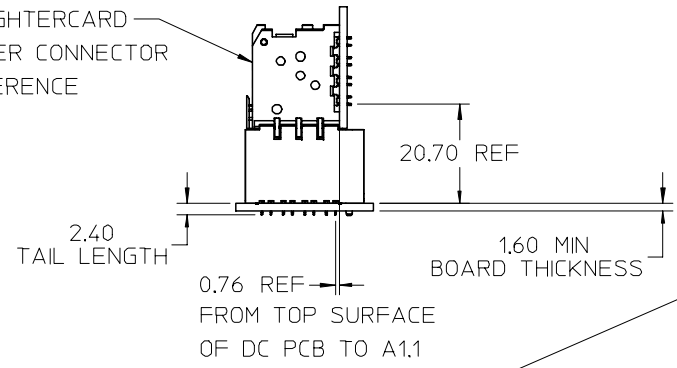
INITIAL RELEASE EC NO: UCP2003-1941 DRWN: JMYCZEK 2004/02/27 CHKD: TELO 2004/02/27 APPR: SREED 2004/03/01	QUALITY SYMBOLS ▽ = 0 ◁ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
			mm	INCH	DIMENSION STYLE MM ONLY		TITLE	
		4 PLACES	± ---	± ---	DRAWN BY JMYCZEK	DATE 2004/01/06	GBX POWER MODULE 4 PAIR 1 UP SALES DRAWING	
		3 PLACES	± ---	± ---	CHECKED BY TELO	DATE 2004/01/06	MOLEX INCORPORATED	
2 PLACES	± ---	± ---	ANGULAR ± 5 °		APPROVED BY CBIXLER	DATE 2004/01/06	MATERIAL NO. SEE CHART	
1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE		DOCUMENT NO. SD-75341-001	SHEET NO. 1 OF 2		
MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

OPEN SIGNAL MODULE (REF) RIGHT POLARIZED SIGNAL MODULE (REF) LEFT POLARIZED SIGNAL MODULE (REF)

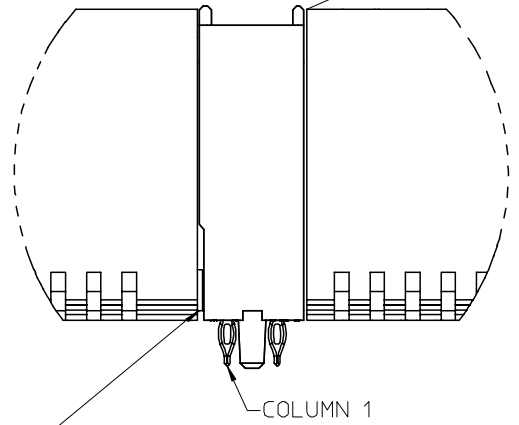


SCALE: 1:1

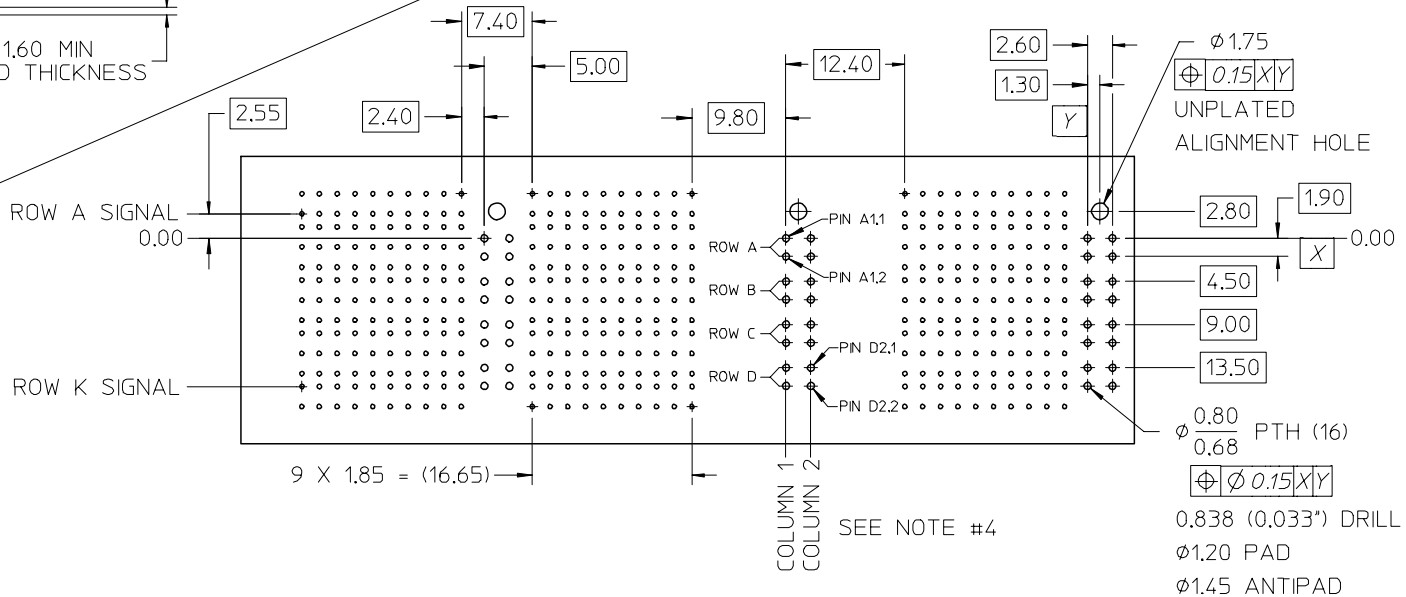
DAUGHTERCARD POWER CONNECTOR REFERENCE



SCALE 4:1



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



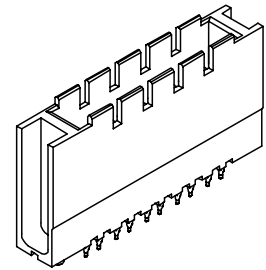
SEE NOTE #4

INITIAL RELEASE EC NO: UCP2003-1941 DRWN: JMYCZEK 2004/02/27 CHKD: TELO 2004/02/27 APPR: SREED 2004/03/01	DESCRIPTION REV 1	QUALITY SYMBOLS ▼ = 0 ▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY			
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± ---	mm INCH	DIMENSION STYLE MM ONLY		TITLE GBX POWER MODULE 4 PAIR 1 UP SALES DRAWING					
		ANGULAR ± 5 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY JMYCZEK	DATE 2004/01/06	CHECKED BY TELO	DATE 2004/01/06	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-75341-001	SHEET NO. 2 OF 2
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

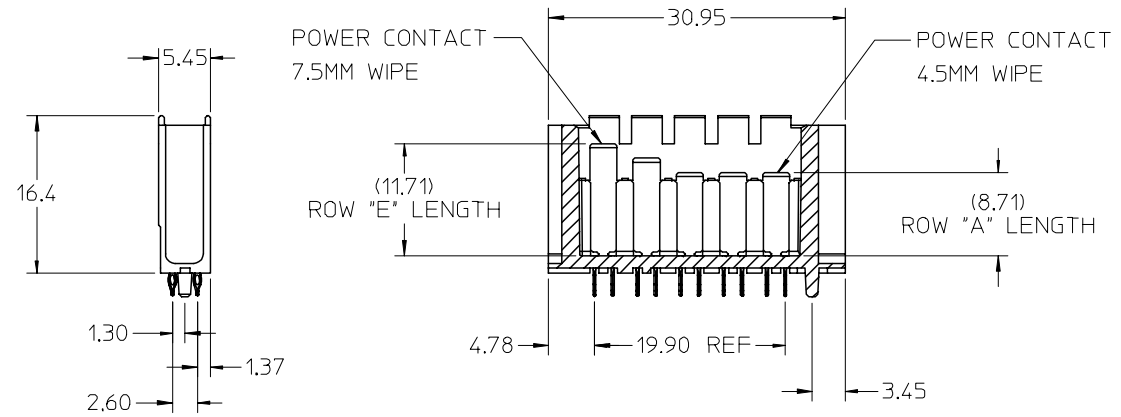
GbX BACKPLANE POWER 5 PAIR 1 UP
MATERIAL NUMBER ASSIGNMENT

7551 * - * * *

ROW "A"	ROW "B"	ROW "C"	ROW "D"	ROW "E"
WIPE LENGTH	WIPE LENGTH	WIPE LENGTH	WIPE LENGTH	WIPE LENGTH
0 = VOID	0 = VOID	0 = VOID	0 = VOID	0 = VOID
4 = 4.5MM	4 = 4.5MM	4 = 4.5MM	4 = 4.5MM	4 = 4.5MM
6 = 6.0MM	6 = 6.0MM	6 = 6.0MM	6 = 6.0MM	6 = 6.0MM
7 = 7.5MM	7 = 7.5MM	7 = 7.5MM	7 = 7.5MM	7 = 7.5MM



SECTION Z-Z



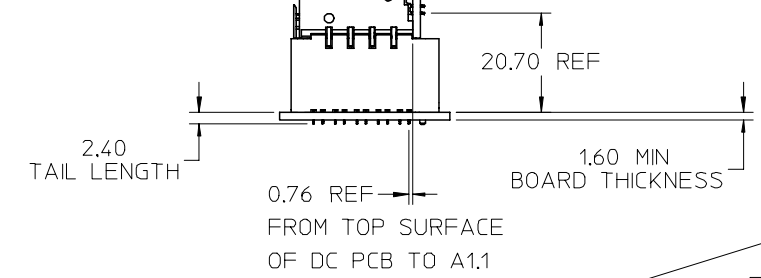
NOTES:

- MATERIAL:
HOUSING: LIQUID CRYSTAL POLYMER (LCP)
UL94V-0 RATED, COLOR: GREY
CONTACT: COPPER ALLOY
- FINISH: SELECT 50 MNCH GOLD ON MATING INTERFACE,
TIN/LEAD ON TAILS, NICKEL UNDERPLATE.
- MATES WITH 75292-5***
- EACH POWER BLADE HAS TWO COMPLIANT PINS PER COLUMN
PIN POSITION A1.1 AND A1.2 REF ONE POWER BLADE

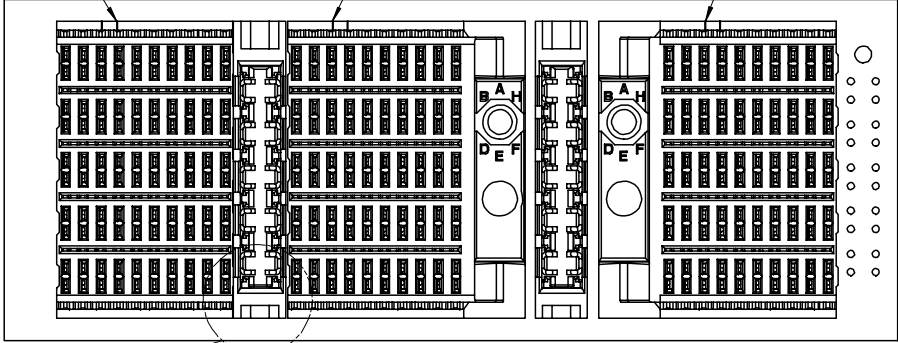
INITIAL RELEASE EC NO: UCP2003-1941 DRWN: JMYCZEK 2004/02/27 CHKD: TELO 2004/02/27 APPR: SREED 2004/03/01	QUALITY SYMBOLS ▽ = 0 ▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
				DIMENSION STYLE MM ONLY		TITLE		
				DRAWN BY DATE JMYCZEK 2004/01/12		GBX POWER MODULE 5 PAIR 1 UP SALES DRAWING		
				CHECKED BY DATE TELO 2004/01/12		MOLEX INCORPORATED		
		ANGULAR ± 5 °		APPROVED BY DATE CBIXLER 2004/01/12	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-75510-001	SHEET NO. 1 OF 2	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

DAUGHTERCARD
POWER CONNECTOR
REFERENCE

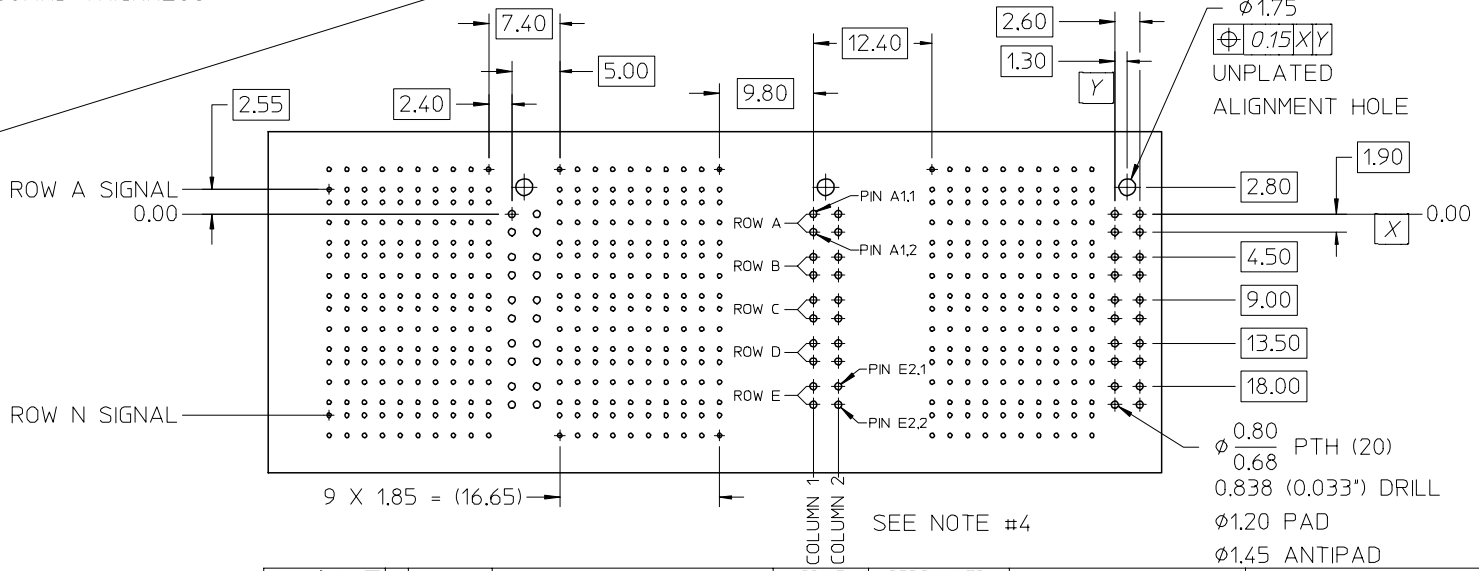
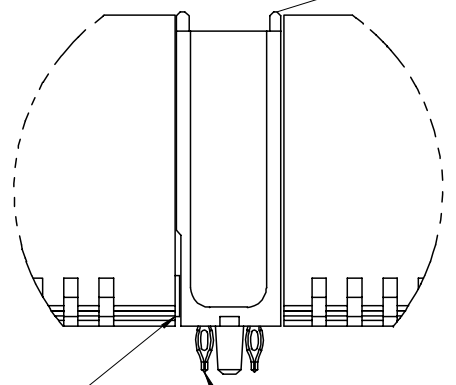
SCALE: 1:1



OPEN SIGNAL MODULE (REF) RIGHT POLARIZED SIGNAL MODULE (REF) LEFT POLARIZED SIGNAL MODULE (REF)



SCALE 4:1



Ø1.75
Ø0.15 X Y
UNPLATED
ALIGNMENT HOLE

Ø0.80 PTH (20)
Ø0.68
Ø0.838 (0.033") DRILL
Ø1.20 PAD
Ø1.45 ANTIPAD

SEE NOTE #4

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

INITIAL RELEASE EC NO: UCP2003-1941 DRWN: JMYCZEK 2004/02/27 CHKD: TELO 2004/02/27 APPR: SREED 2004/03/01	QUALITY SYMBOLS ▽ = 0 ▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
			mm	INCH	DIMENSION STYLE MM ONLY	TITLE GBX POWER MODULE 5 PAIR 1 UP SALES DRAWING			
1	DESCRIPTION	4 PLACES	± ---	± ---	DRAWN BY JMYCZEK	DATE 2004/01/12	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-75510-001	SHEET NO. 2 OF 2
		3 PLACES	± ---	± ---	CHECKED BY TELO	DATE 2004/01/12			
		ANGULAR ± 5 °		APPROVED BY CBIXLER		DATE 2004/01/12	MATERIAL NO. SEE CHART		
		DRAFT WHERE APPLICABLE		APPROVED BY CBIXLER		DATE 2004/01/12	MATERIAL NO. SEE CHART		
		MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 75234 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

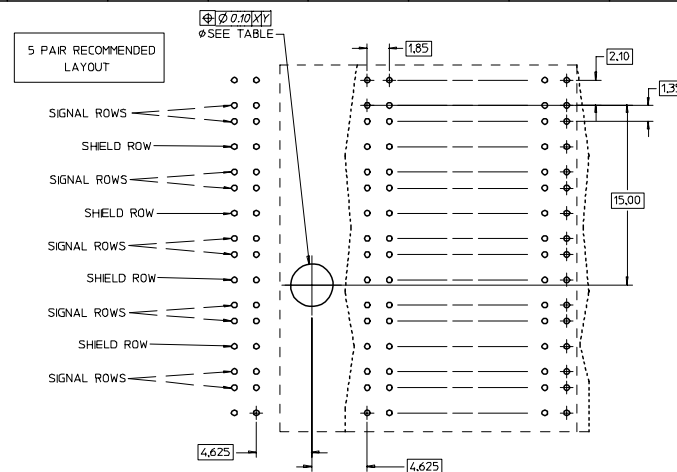
NOTES:
 1. REFER TO BACKPLANE SALES DRAWINGS FOR ROW AND COLUMN ASSIGNMENTS.
 2. INSTALLATION TORQUE SPECIFICATIONS = 2.5 - 3.0 N-LBS.
 3. PLATED THRU HOLE TO CONNECT TO CHASSIS FOR GROUNDED GUIDE MODULE OPTION.
 4. REFER TO PS-75221-999 FOR GBX PRODUCT SPECIFICATION.

TABLE #1 - HOLE SPECIFICATIONS

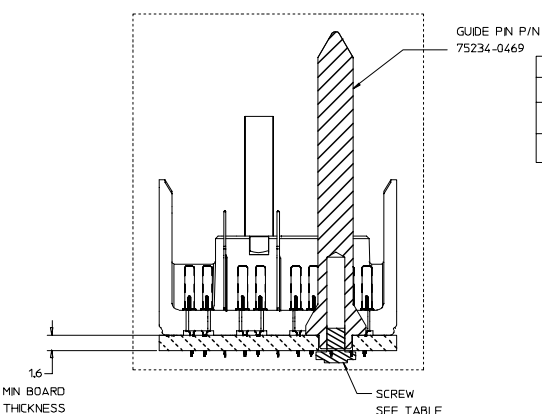
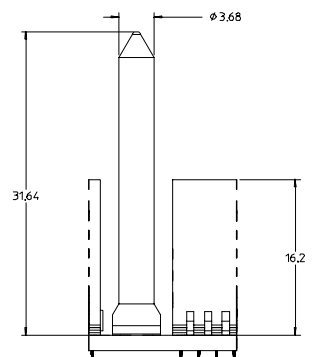
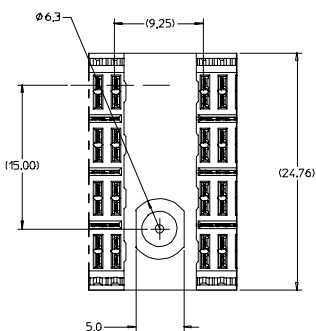
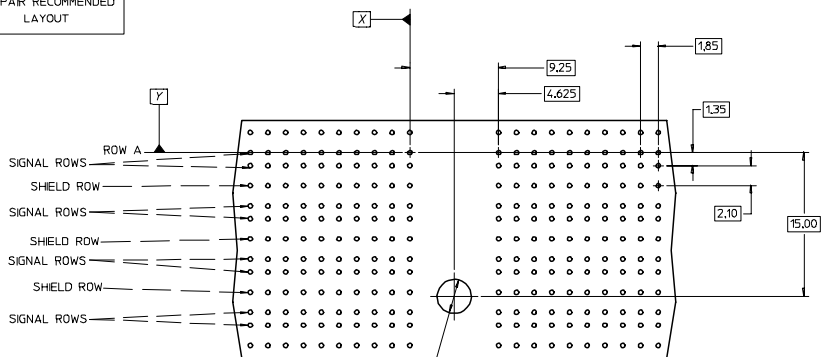
FINISHED HOLE SIZE	GROUNDING	UNGROUNDING
	Ø3,48-3,63	Ø3,48-3,63
PAD	Ø 6,5	N/A
PLATED	YES	N/A
DRILL (mm)	3,66mm	3,57mm
DRILL (IN)	0,144"	0,1405"

TABLE #2 - SCREW SPECIFICATIONS

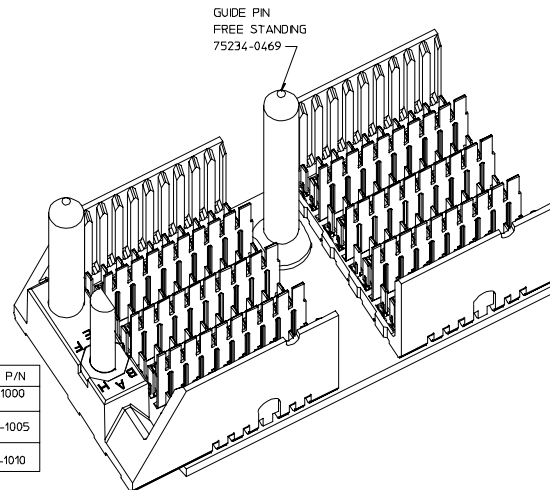
SCREW P/N	DESCRIPTION	BOARD THICKNESS
73774-1000	#2-56 x 0.375" LONG SQUARE CONICAL MACHINE SCREW	1,6-5,0 mm
73774-1005	#2-56 x 0.500" LONG SQUARE CONICAL MACHINE SCREW	5,0-8,0 mm
73774-1010	#2-56 x 0.625" LONG SQUARE CONICAL MACHINE SCREW	8,0-10,0 mm



4 PAIR RECOMMENDED LAYOUT



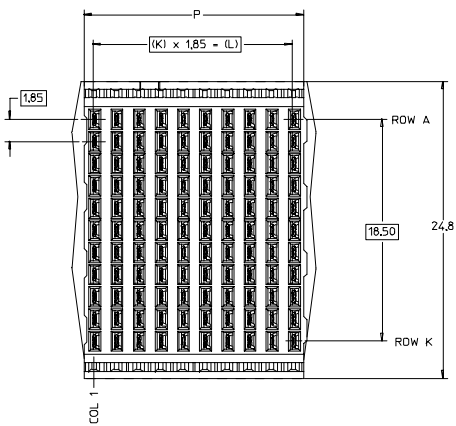
KIT	P/N	BOARD THICKNESS	GUIDE PIN P/N	SCREW P/N
75234-1469		1,6 - 5,0mm	75234-0469	73774-1000
75234-2469		5,0-8,0 mm	75234-0469	73774-1005
75234-3469		8,0-10,0 mm	75234-0469	73774-1010



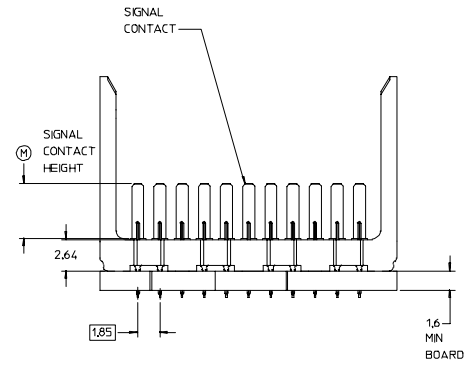
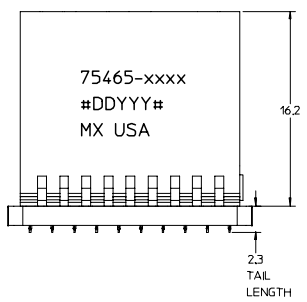
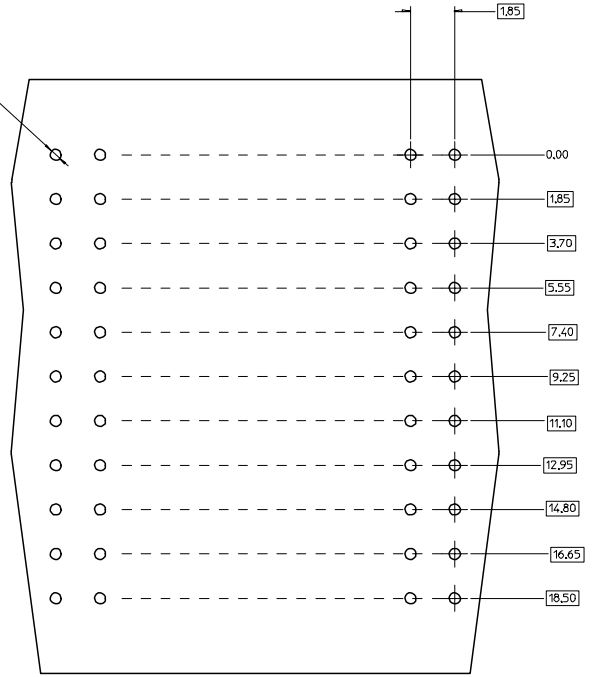
INITIAL RELEASE EC NO: UCP2004-2524 DRWN:NMARTIN 2004/06/29 CHKD:SPREED 2004/06/29 APPR:CBXLER 2004/06/30 REV A	QUALITY SYMBOLS -0 -0	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ±--- ±--- 3 PLACES ±--- ±--- 2 PLACES ±--- ±--- 1 PLACE ±--- ±--- ANGULAR ±---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SCALE 4:1 DESIGN UNITS METRIC DIMENSION STYLE MM ONLY DRAWN BY NMARTIN DATE 2004/01/15 CHECKED BY JLAURX DATE 2004/01/15 APPROVED BY SPREED DATE 2004/01/15	THIRD ANGLE PROJECTION REVISE ON CAD ONLY TITLE GBX BACKPLANE GUIDE PIN FREE STANDING R3,68MM BOARD LAYOUT DRAWING Molex MOLEX INCORPORATED MATERIAL NO. SEE CHART DOCUMENT NO. SD-75234-100 SHEET NO. 1 OF 1
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 75465 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



Ø0.46±0.05
PLATED
THRU HOLE
(Ø0.57 DRILL)
(Ø0.88 PAD)



PIN LENGTH DIM "M"

3 - 3.55 mm (30µ Au)
4 - 4.55 mm (30µ Au)
5 - 5.55 mm (30µ Au)
7 - 3.55 mm (50µ Au)
8 - 4.55 mm (50µ Au)
9 - 5.55 mm (50µ Au)

KEYING POSITION NONE = 0

- NOTES:
1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0, COLOR - BLACK, SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
 2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN (Sn) ON PCB TAILS, NICKEL (Ni) OVERALL.
 3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
 4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY.
 5. 10 COLUMN 4 PAIR L-SERIES SHOWN FOR ILLUSTRATION PURPOSES ONLY. FOR SPECIFIC PART NUMBER AND MATNG INFORMATION PLEASE REFER TO CHART.
 6. PACKAGE PER PK-70873-563.
 7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.
 8. 25 COLUMN VARIETY PLANNED BUT NOT CURRENTLY TOOLED. CONTACT MOLEX FOR ADDITIONAL INFORMATION.

PART NUMBER TABLE

ASSY PART NO.	K	L	P	TOTAL NO. OF CONTACTS
75465-010*	9	16.65	18.35	110
75465-020*	24	44.40	46.10	275
75465-050*	4	7.40	9.10	55

INITIAL RELEASE EC NO: UCP2005-0921 DRAWN:NMARTIN 2004/11/02 CHKD:SREED 2004/11/02 APPR:CBXLER 2004/11/03 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
	0	mm INCH	MM ONLY	TITLE	GBX BACKPLANE L-SERIES 4 PAIR OPEN END SALES ASSY DRAWING		
	0	ANGULAR ±---°	DRAWN BY NMARTIN	DATE 2004/05/13	CHECKED BY SREED	DATE 2004/05/13	MOLEX MOLEX INCORPORATED
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY CBXLER	DATE 2004/05/13	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-75465-010	SHEET NO. 1 OF 1
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1