NOTES:
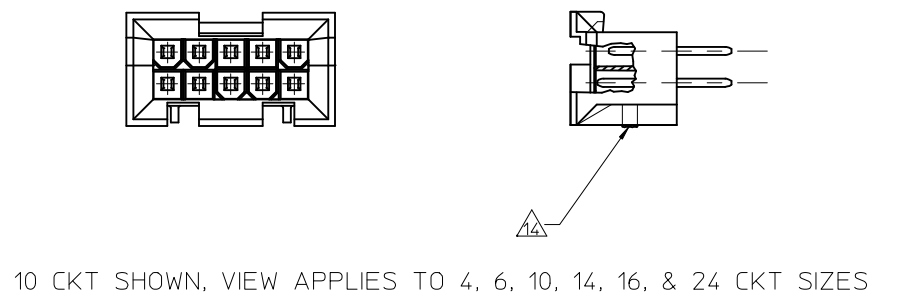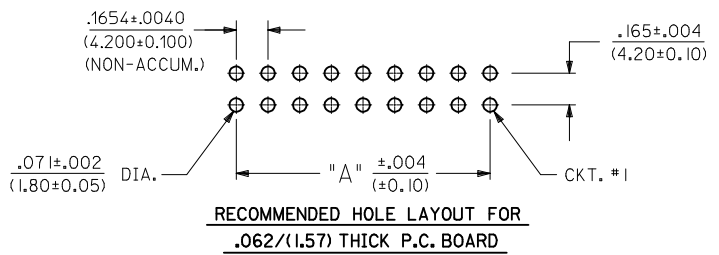
1) HOUSING MATERIAL: A = NYLON 6/6. U.L. 94V-2. COLOR: NATURAL.
   B = NYLON 6/6. U.L. 94V-0. COLOR: NATURAL.
   C = PBT POLYESTER 94V-0 COLOR: BLACK
   TERMINAL MATERIAL: BRASS ALLOY

2) TERMINAL PLATING
   A = .000100/(.00254) MIN. MATTE TIN OVER
       .000050/(.00127) MIN. NICKEL.
   C = .000030/(0.00076) MIN. SELECT GOLD AND
       .000100/(0.00254) MIN. SELECT MATTE TIN
       OVER .000050/(0.00127) MIN. NICKEL OVERALL
   D = .000060/(0.00152) MIN REFLOWED MATTE TIN OVER
       .000050/(0.00127) MIN. NICKEL OVERALL.

3) PRODUCT SPECIFICATION: PS-5556-002

4) PACKAGING IN TRAYS PER PK-42404-002 EXCEPT 43693-0024 PACKAGED BULK

5) PART MATES WITH MINI-FIT JR. RECEPTACLES 5557, 42385, 42474 AND 44516.

6) PART ALLOWS FOR UP TO .100(2.54) MISALIGNMENT WITH MATING RECEPTACLE
   IN ANY DIRECTION. SEE MATING CONNECTOR DRAWINGS FOR SPECIFIC ALLOWANCE.

7) PARTS ARE NOT DESIGNED FOR CURRENT SHARING.

8) CONNECTORS ASSEMBLIES ARE NOT TO BE MATED OR UNMATED WHILE
   CIRCUITS ARE LIVE.

9) SEE CHART ON SHEET 2 FOR STANDARD, MAKE-FIRST/BREAK-LAST AND
   PLATING LOCATIONS.

10) ITEM NUMBERS PRECEDED BY AN "X" IN THE CHART ARE NOT AVAILABLE.

11) REFERENCE DIMENSION "C" NOT TO EXCEED .283/(7.20) NOMINAL.

12) DISCOLORATION IN THE BANDOLIER CARRIER AREA OF THE PIN IS
    INHERENT TO THE PLATING PROCESS AND IS DUE TO THE MASKING
    EFFECT OF THE CARRIER. THIS DISCOLORATION IS IN A NON-FUNCTIONAL
    AREA OF THE PIN AND WILL NOT AFFECT THE PERFORMANCE OF THE
    HEADER ASSEMBLY.

13) PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC '
    SPECIFICATION PS-45499-002, EXCEPT CLASS "C" ON BOTH SIDE RIBS.

14) CUT OFF PEGS NOT TO PROTRUDE MORE THAN .030/(0.76) ON ALL CIRCUIT SIZES
    EXCEPT 18 CIRCUIT PARTS WILL NOT HAVE CUT OFF PEGS.

MAKE-FIRST/BREAK-LAST PIN

STANDARD PIN

LAST CIRCUIT OF CONNECTOR

CKT. #2
CKT. #1

"B"
"A" REF.

.55 (14.1)
.098 (2.50)
.59 (15.0)
.38 (9.6)
.165 (4.20)
.22 (5.6) REF.
.106 (2.70)
.21 (5.4) REF.
DIM "C" REF.
.060 (1.50)

.1654 (4.200) TYP.

18 CKT PART SHOWN

RECOMMENDED HOLE LAYOUT FOR
.062/(1.57) THICK P.C. BOARD

.1654±.0040 (4.200±0.100) (NON-ACCUM.)
.165±.004 (4.20±0.10)
.071±.002 (1.80±0.05) DIA.
"A" ±.004 (±0.10)
CKT. #1

10 CKT SHOWN, VIEW APPLIES TO 4, 6, 10, 14, 16, & 24 CKT SIZES

CKT. SIZE	DIM. "A"	DIM. "B"
36	2.811 (71.40)	3.236 (82.20)
24	1.819 (46.20)	2.244 (57.00)
22	1.654 (42.00)	2.079 (52.80)
20	1.488 (37.80)	1.913 (48.60)
18	1.323 (33.60)	1.748 (44.40)
16	1.157 (29.40)	1.583 (40.20)
14	.992 (25.20)	1.417 (36.00)
12	.827 (21.00)	1.252 (31.80)
10	.661 (16.80)	1.087 (27.60)
8	.496 (12.60)	.921 (23.40)
6	.331 (8.40)	.756 (19.20)
4	.165 (4.20)	.590 (15.00)
2	——	.425 (10.80)

UPDATE NOTE 14
EC NO: UCP2015-4258
DRWN:JMONTI   2015/06/25
CHKD:JBELL   2015/06/25
APPR:FSMITH   2015/07/10
DESCRIPTION
REV
D2

QUALITY SYMBOLS
=0
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	±.015
2 PLACES	± 0.38	± ---
1 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: GEP   DATE: 3/11/96
CHECKED BY: RFJ   DATE: 3/11/96
APPROVED BY: RFJ   DATE: 3/11/96

TITLE: VERT. HEADER ASSY WITH MAKE-FIRST/BREAK-LAST MINI-FIT B.M.I. SERIES

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-43693-****
SHEET NO.: 1 OF 2
SIZE: C

TERMINAL VERSION REQUIRED AT EACH CIRCUIT LOCATION: 'S' = STD.LENGTH   "M" = MAKE-FIRST/BREAK-LAST   'V' = VOIDED CIRCUIT

ITEM NO.	CHARACTERISTIC DESCRIPTION	CKT. SIZE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	DIM "C" REF.
43693-0001	10AC	10	CS	CS	CM	CS	CS	CS	CS	CM	CS	CS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.283 (7.20)
43693-0002	24BA	24	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AS	AM	AM	AM	AM	AM	AM	-	-	-	-	-	-	-	-	-	-	-	-	.154 (3.91)
43693-0005	16BA	16	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.150 (3.81)
43693-0020	18BA	18	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.209 (5.31)
43693-0022	10BA	10	AS	AM	AM	AM	AM	AM	AM	AM	AM	AM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.154 (3.91)
43693-0024	10BC	10	CS	CS	CM	CS	CS	CM	CM	CM	CS	CS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.321 (8.15)
43693-0027	18BA	18	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.258 (6.55)
43693-0030	18BA	18	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.283 (7.20)
43693-0031	18BA	18	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.154 (3.91)
43693-0037	18BD	18	DS	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.258 (6.55)

X = NOT AVAILABLE SEE NOTE 10
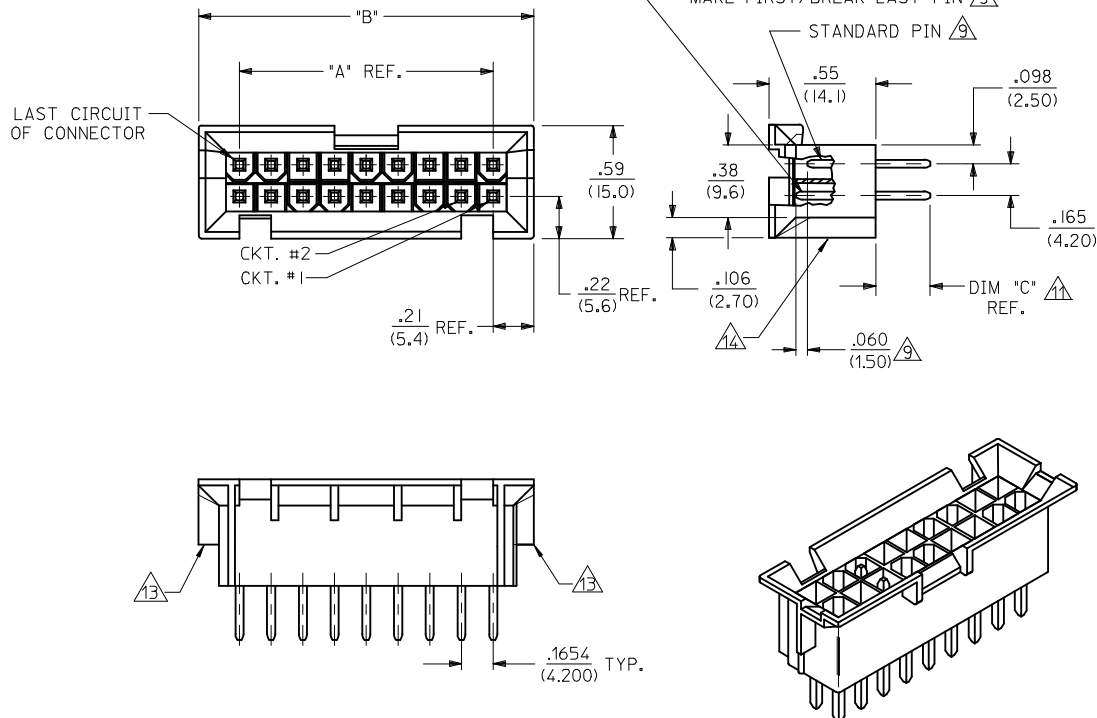
CHARACTERISTICS LEGEND:

CIRCUIT SIZE
(02-24 & 36)

HOUSING MAT'L. (SEE NOTE 1)
"A" = NYLON 6/6, U.L. 94V-2, COLOR: NATURAL
"B" = NYLON 6/6, U.L. 94V-0, COLOR: NATURAL
"C" = PBT POLYESTER 94V-0, COLOR: BLACK

TERMINAL PLATING (SEE NOTE 2)
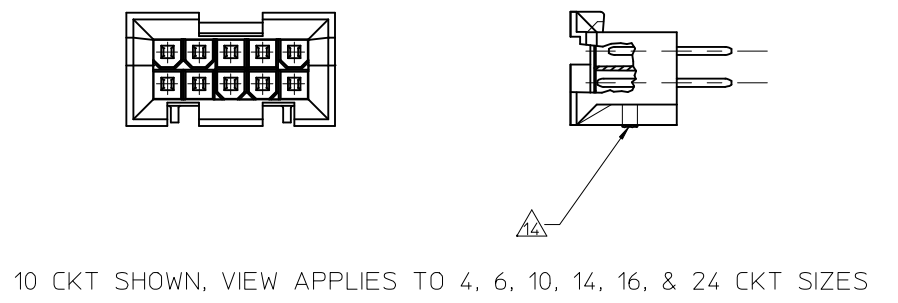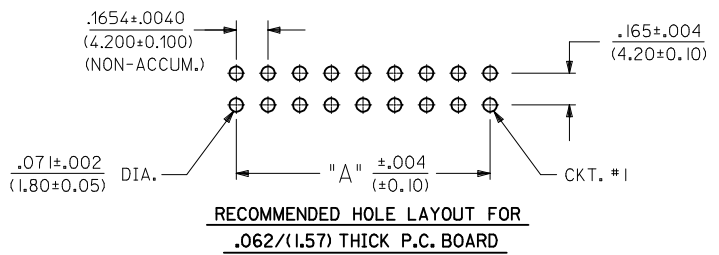A = MATTE TIN
C = SELECT GOLD
D = REFLOW MATTE TIN

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	±.015
2 PLACES	± 0.38	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM

DRAWN BY	DATE
GEP	3/11/96
CHECKED BY	DATE
RFJ	3/11/96
APPROVED BY	DATE
RFJ	3/11/96

MATERIAL NO. SEE CHART

SCALE

DESIGN UNITS: METRIC

THIRD ANGLE PROJECTION

TITLE
VERT. HEADER ASSY WITH
MAKE-FIRST/BREAK-LAST
MINI-FIT B.M.I. SERIES

molex MOLEX INCORPORATED

DOCUMENT NO. SDA-43693-****

SHEET NO. 2 OF 2

SIZE C

NOTES:

1) HOUSING MATERIAL: A = NYLON 6/6. U.L. 94V-2. COLOR: NATURAL.
   B = NYLON 6/6. U.L. 94V-0. COLOR: NATURAL.
   C = PBT POLYESTER 94V-0 COLOR: BLACK
   TERMINAL MATERIAL: BRASS ALLOY

2) TERMINAL PLATING
   A = .000100/(.00254) MIN. MATTE TIN OVER
       .000050/(.00127) MIN. NICKEL.
   C = .000030/(0.00076) MIN. SELECT GOLD AND
       .000100/(0.00254) MIN.SELECT MATTE TIN
       OVER .000050/(0.00127) MIN. NICKEL OVERALL
   D = .000060/(0.00152) MIN REFLOWED MATTE TIN OVER
       .000050/(0.00127) MIN. NICKEL OVERALL.

3) PRODUCT SPECIFICATION: PS-5556-002
4) PACKAGING IN TRAYS PER PK-42404-002 EXCEPT 43693-0024 PACKAGED BULK
5) PART MATES WITH MINI-FIT JR. RECEPTACLES 5557, 42385, 42474 AND 44516.
6) PART ALLOWS FOR UP TO .100(2.54) MISALIGNMENT WITH MATING RECEPTACLE
   IN ANY DIRECTION. SEE MATING CONNECTOR DRAWINGS FOR SPECIFIC ALLOWANCE.
7) PARTS ARE NOT DESIGNED FOR CURRENT SHARING.
8) CONNECTORS ASSEMBLIES ARE NOT TO BE MATED OR UNMATED WHILE
   CIRCUITS ARE LIVE.
9) SEE CHART ON SHEET 2 FOR STANDARD, MAKE-FIRST/BREAK-LAST AND
   PLATING LOCATTIONS.
10) ITEM NUMBERS PRECEDED BY AN "X" IN THE CHART ARE NOT AVAILABLE.
11) REFERENCE DIMENSION "C" NOT TO EXCEED .283/(7.20) NOMINAL.
12) DISCOLORATION IN THE BANDOLIER CARRIER AREA OF THE PIN IS
    INHERENT TO THE PLATING PROCESS AND IS DUE TO THE MASKING
    EFFECT OF THE CARRIER. THIS DISCOLORATION IS IN A NON-FUNCTIONAL
    AREA OF THE PIN AND WILL NOT AFFECT THE PERFORMANCE OF THE
    HEADER ASSEMBLY.
13) PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC '
    SPECIFICATION PS-45499-002, EXCEPT CLASS "C" ON BOTH SIDE RIBS.
14) CUT OFF PEGS NOT TO PROTRUDE MORE THAN .030/(0.76) ON ALL CIRCUIT SIZES
    EXCEPT 18 CIRCUIT PARTS WILL NOT HAVE CUT OFF PEGS.

MAKE-FIRST/BREAK-LAST PIN
STANDARD PIN
LAST CIRCUIT OF CONNECTOR
CKT. #2
CKT. #1

"B"
"A" REF.
.55 (14.1)
.098 (2.50)
.59 (15.0)
.38 (9.6)
.165 (4.20)
.22 (5.6) REF.
.106 (2.70)
DIM "C" REF.
.21 (5.4) REF.
.060 (1.50)
.1654 (4.200) TYP.

18 CKT PART SHOWN

RECOMMENDED HOLE LAYOUT FOR
.062/(1.57) THICK P.C. BOARD
.1654±.0040 (4.200±0.100) (NON-ACCUM.)
.165±.004 (4.20±0.10)
.071±.002 (1.80±0.05) DIA.
"A" ±.004 (±0.10)
CKT. #1

10 CKT SHOWN, VIEW APPLIES TO 4, 6, 10, 14, 16, & 24 CKT SIZES

CKT. SIZE	DIM. "A"	DIM. "B"
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24	1.819 (46.20)	2.244 (57.00)
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14	.992 (25.20)	1.417 (36.00)
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10	.661 (16.80)	1.087 (27.60)
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6	.331 (8.40)	.756 (19.20)
4	.165 (4.20)	.590 (15.00)
2	————	.425 (10.80)

UPDATE NOTE 14
EC NO: UCP2015-4258
DRWN:JMONTI 2015/06/25
CHKD:JBELL 2015/06/25
APPR:FSMITH 2015/07/10
DESCRIPTION
REV
D2

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	±.015
2 PLACES	± 0.38	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DIMENSION STYLE: IN/MM
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: GEP   DATE: 3/11/96
CHECKED BY: RFJ   DATE: 3/11/96
APPROVED BY: RFJ   DATE: 3/11/96

TITLE:
VERT. HEADER ASSY WITH
MAKE-FIRST/BREAK-LAST
MINI-FIT B.M.I. SERIES

molex MOLEX INCORPORATED

MATERIAL NO. SEE CHART
DOCUMENT NO. SDA-43693-****
SHEET NO. 1 OF 2
SIZE C

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

TERMINAL VERSION REQUIRED AT EACH CIRCUIT LOCATION: 'S' = STD.LENGTH   "M" = MAKE-FIRST/BREAK-LAST   'V' = VOIDED CIRCUIT

ITEM NO.	CHARACTERISTIC DESCRIPTION	CKT. SIZE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	DIM "C" REF.
43693-0001	10AC	10	CS	CS	CM	CS	CS	CS	CS	CM	CS	CS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.283 (7.20)
43693-0002	24BA	24	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AS	AM	AM	AM	AM	AM	AM	-	-	-	-	-	-	-	-	-	-	-	-	.154 (3.91)
43693-0005	16BA	16	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.150 (3.81)
43693-0020	18BA	18	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.209 (5.31)
43693-0022	10BA	10	AS	AM	AM	AM	AM	AM	AM	AM	AM	AM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.154 (3.91)
43693-0024	10BC	10	CS	CS	CM	CS	CS	CM	CM	CM	CS	CS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.321 (8.15)
43693-0027	18BA	18	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.258 (6.55)
43693-0030	18BA	18	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.283 (7.20)
43693-0031	18BA	18	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.154 (3.91)
43693-0037	18BD	18	DS	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	DM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.258 (6.55)

X = NOT AVAILABLE SEE NOTE 10

CHARACTERISTICS LEGEND:

** ** **

CIRCUIT SIZE
(02-24 & 36)

HOUSING MAT'L.(SEE NOTE 1)
"A" = NYLON 6/6, U.L. 94V-2,
    COLOR: NATURAL
"B" = NYLON 6/6, U.L. 94V-0,
    COLOR: NATURAL
"C" = PBT POLYESTER 94V-0,
    COLOR: BLACK

TERMINAL PLATING (SEE NOTE 2)
A = MATTE TIN
C = SELECT GOLD
D = REFLOW MATTE TIN

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	±.015
2 PLACES	± 0.38	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY	DATE
GEP	3/11/96
CHECKED BY	DATE
RFJ	3/11/96
APPROVED BY	DATE
RFJ	3/11/96

MATERIAL NO.
SEE CHART

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

TITLE
VERT. HEADER ASSY WITH
MAKE-FIRST/BREAK-LAST
MINI-FIT B.M.I. SERIES

molex   MOLEX INCORPORATED

DOCUMENT NO.
SDA-43693-****

SIZE
C

SHEET NO.
2 OF 2

tb_frame_C_P_AM_T
Rev. F 2009/06/18

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Authorized Distributor

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