Grid references (top): 12 11 10 9 8 7 6 5 4 3 2 1
Grid references (sides): H G F E D C B A

Top-left view (connector top)

A
B
1.90
Z
1.35
17X
22.95 28.9 $^{+0.2}_{-0.5}$

Top-right view (hole pattern)

B
0.95
1.35 (ADD FOR END WALL)
0.95
1.35 (ADD FOR END WALL)
PIN A1
1.90
3.0
28.9

ROW A
ROW B
ROW C
ROW D
ROW E
ROW F
ROW G
ROW H
ROW J
ROW K
ROW L
ROW M
ROW N
ROW O
ROW P
ROW R
ROW S
ROW T

SIGNAL HOLES REF.
GROUND HOLES REF.
17X 1.35

KEEP OUT ZONE

UNGUIDED BACKPLANE HOLE PATTERN (CONNECTOR SIDE) SEE NOTE 9

SEE PART NUMBER CHART AND PART NUMBER LOGIC (18 HOLES PER COLUMN)

$\oplus$ $\varnothing$0.10

Lower-left view

11.95

PIN LENGTH P ±0.20
2.64

1.4
TAIL LENGTH

SECTION Z-Z

NOTCH DESIGNATES ROW A

NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL94V-0
   TERMINALS - HIGH PERFORMANCE COPPER ALLOY
2. FINISH: 30µ IN MIN. GOLD IN CONTACT AREA, ELECTIVE MATTE TIN ON PCB TAILS, NICKEL OVERALL.
3. REFER TO MOLEX PRODUCT SPECIFICATION PS-170540-999 FOR PERFORMANCE SPECIFICATIONS AND ADDITIONAL PCB INFORMATION.
4. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF MOLEX COSMETIC SPEC PS-45499-002.
5. PARTS PACKAGED PER PK-70873-7703.
6. SEE SHEETS 2 & 3 FOR PART NUMBERS AND BOARD RELATIONSHIPS.
7. MINIMUM CIRCUIT BOARD THICKNESS: 1.0mm
8. REFER TO MOLEX PCB ROUTING GUIDE AS-76060-990 FOR ANTIPAD AND ROUTING RECOMMENDATIONS.
9. "THESE DIMENSIONS REPRESENT THE AREA NEEDED TO ACCOMMODATE CONNECTOR INSERTION AND REPAIR ON THE PC BOARD. THIS IS REFERRED TO AS THE "CONNECTOR KEEP OUT ZONE" AND DOES NOT REPRESENT THE ACTUAL PERIMETER OF THE CONNECTOR. WHEN LAYING OUT A PC BOARD FOR CONNECTORS STACK TOGETHER, USE A 1.9mm PROGRESSION."

PART NUMBER CHART

MATERIAL NUMBER	# OF COLUMNS	# OF DIFF. PAIR	DIM. A	DIM. B	
170535-182*	8	48	17.9	13.30	DUAL END WALL OPTION
170535-112*	10	60	21.7	17.10	
170535-142*	14	84	29.3	24.70	
170535-162*	16	96	33.1	28.50	
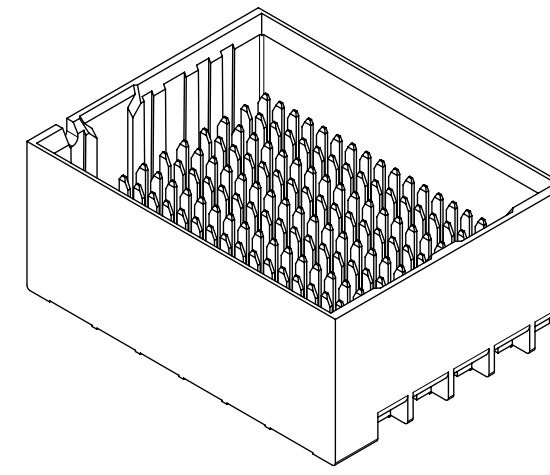
DUAL END WALL OPTION

MATERIAL NUMBER	# OF COLUMNS	# OF DIFF. PAIR	DIM. A	DIM. B	
170535-181*	8	48	16.5	13.30	LEFT END WALL OPTION
170535-111*	10	60	20.3	17.10	
170535-141*	14	84	27.9	24.70	
170535-161*	16	96	31.7	28.50	
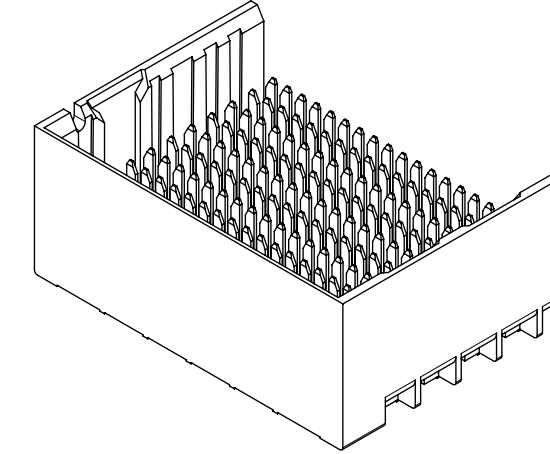
LEFT END WALL OPTION

MATERIAL NUMBER	# OF COLUMNS	# OF DIFF. PAIR	DIM. A	DIM. B	
170535-183*	8	48	16.5	13.30	RIGHT END WALL OPTION
170535-113*	10	60	20.3	17.10	
170535-143*	14	84	27.9	24.70	
170535-163*	16	96	31.7	28.50	
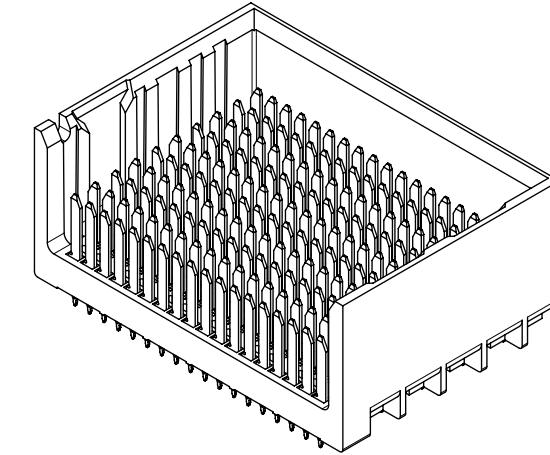
RIGHT END WALL OPTION

MATERIAL NUMBER	# OF COLUMNS	# OF DIFF. PAIR	DIM. A	DIM. B	
170535-180*	8	48	15.1	13.30	OPEN WALL OPTION
170535-110*	10	60	18.9	17.10	
170535-140*	14	84	26.5	24.70	
170535-160*	16	96	30.3	28.50	
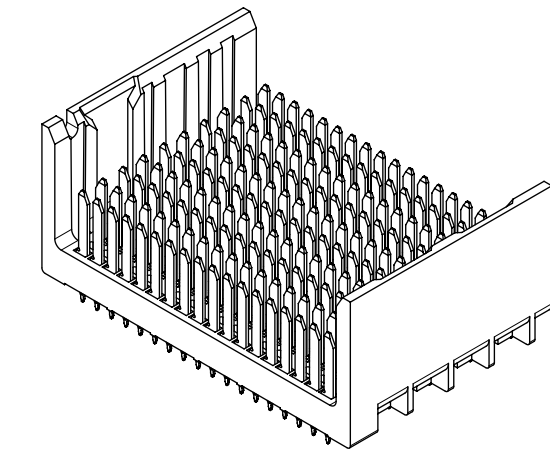
OPEN WALL OPTION

PART NUMBER LOGIC
170535-****

MODULE TYPE
1 = UNGUIDED, MATTE TIN

OF COLUMNS
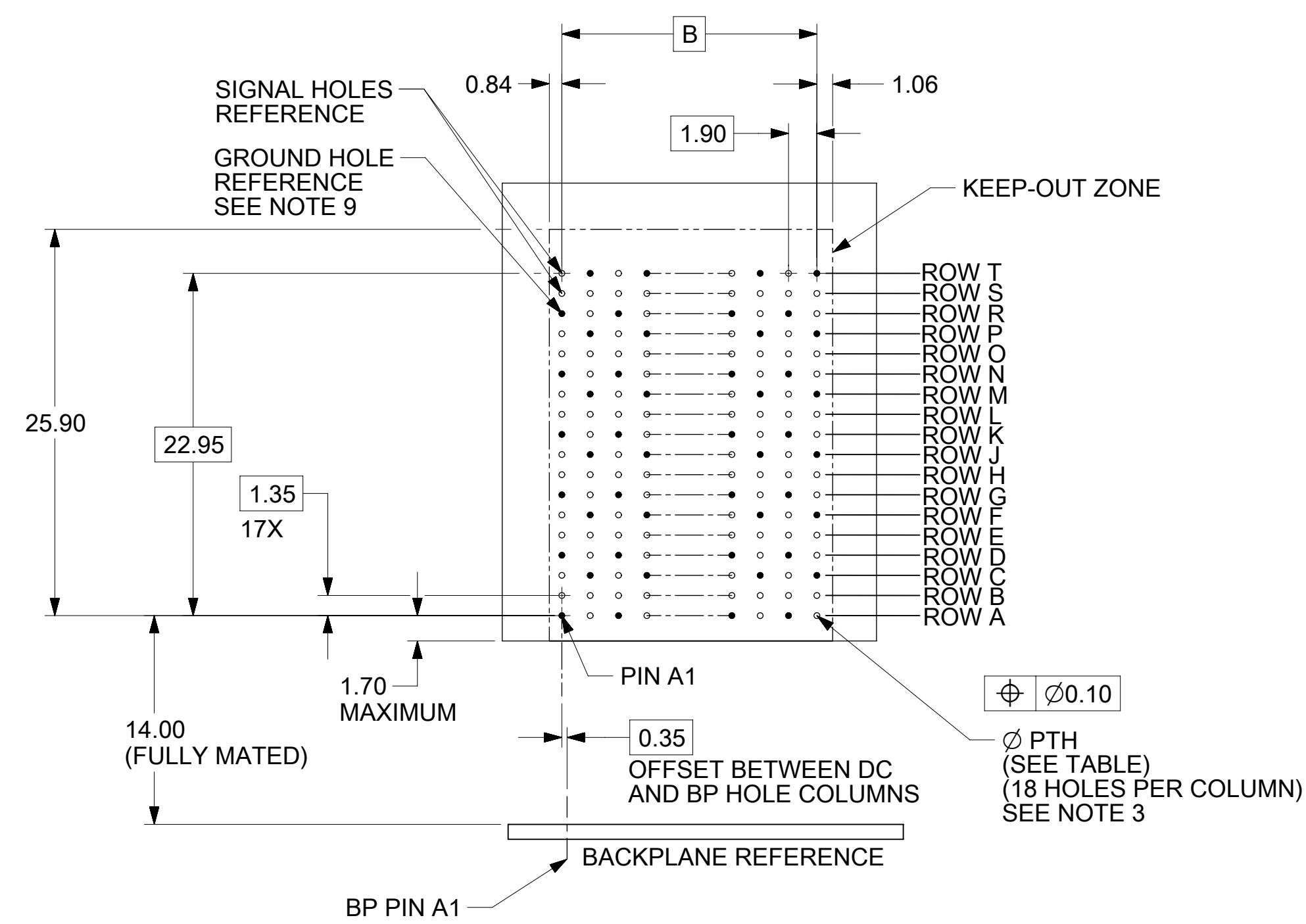8 = 8 COLUMN
1 = 10 COLUMN
4 = 14 COLUMN
6 = 16 COLUMN

END WALL OPTIONS
0 = OPEN ENDS
1 = LEFT END WALL
2 = DUAL END WALL
3 = RIGHT END WALL

P = PIN LENGTH
3 = 4.50 (SHORT COMPLIANT, 0.46±0.05 PTH)
4 = 4.90 (SHORT COMPLIANT, 0.46±0.05 PTH)
5 = 5.50 (SHORT COMPLIANT, 0.46±0.05 PTH)
6 = 4.50 (MICRO COMPLIANT, 0.39±0.05 PTH)
7 = 4.90 (MICRO COMPLIANT, 0.39±0.05 PTH)
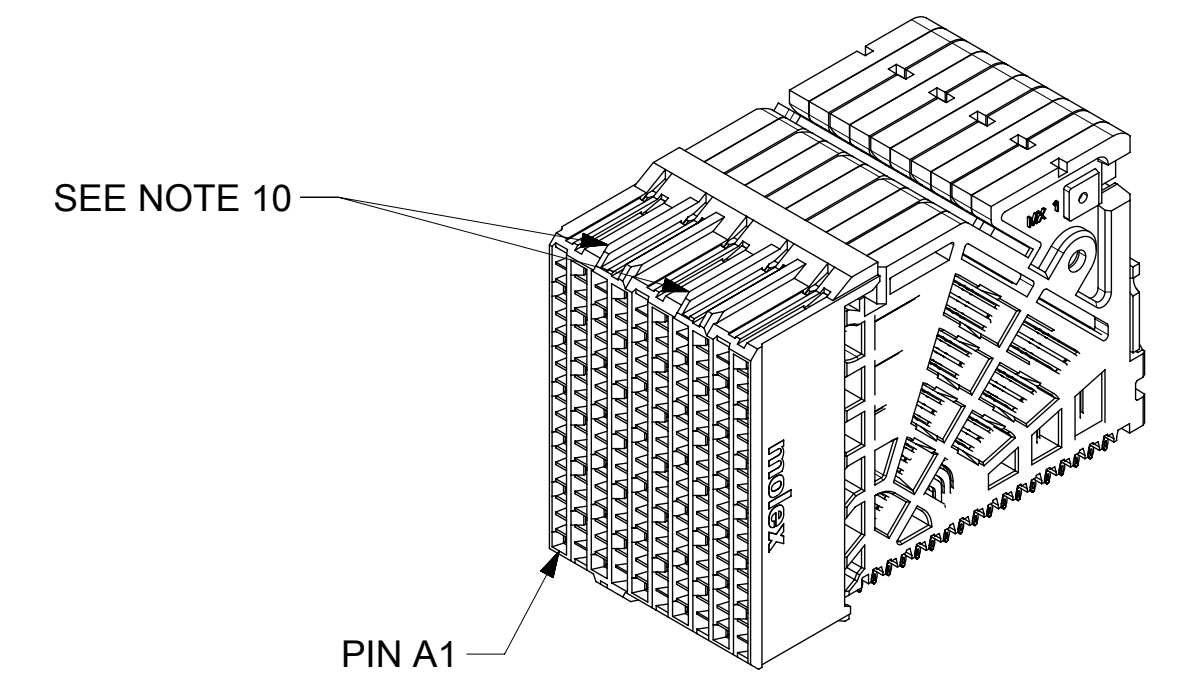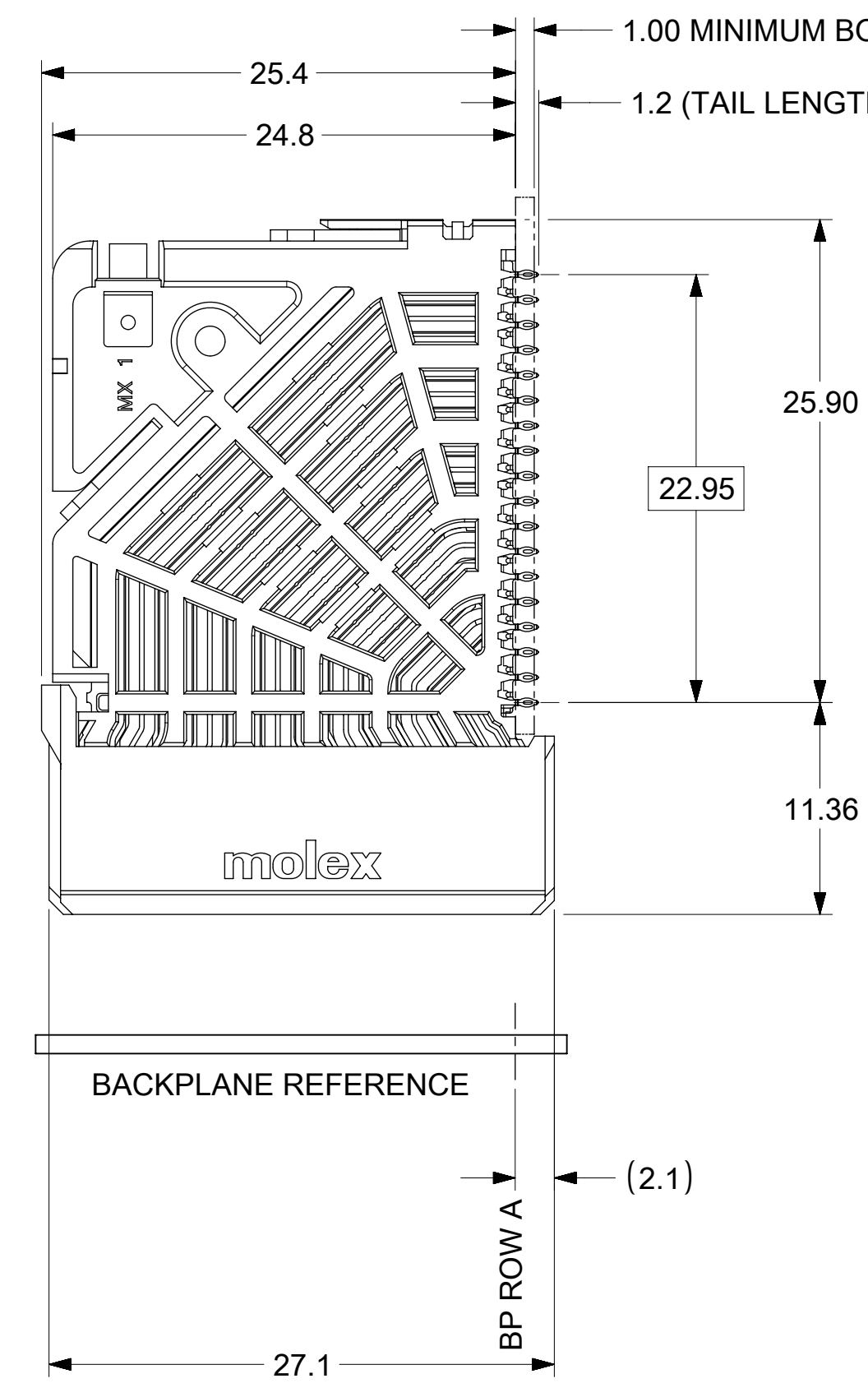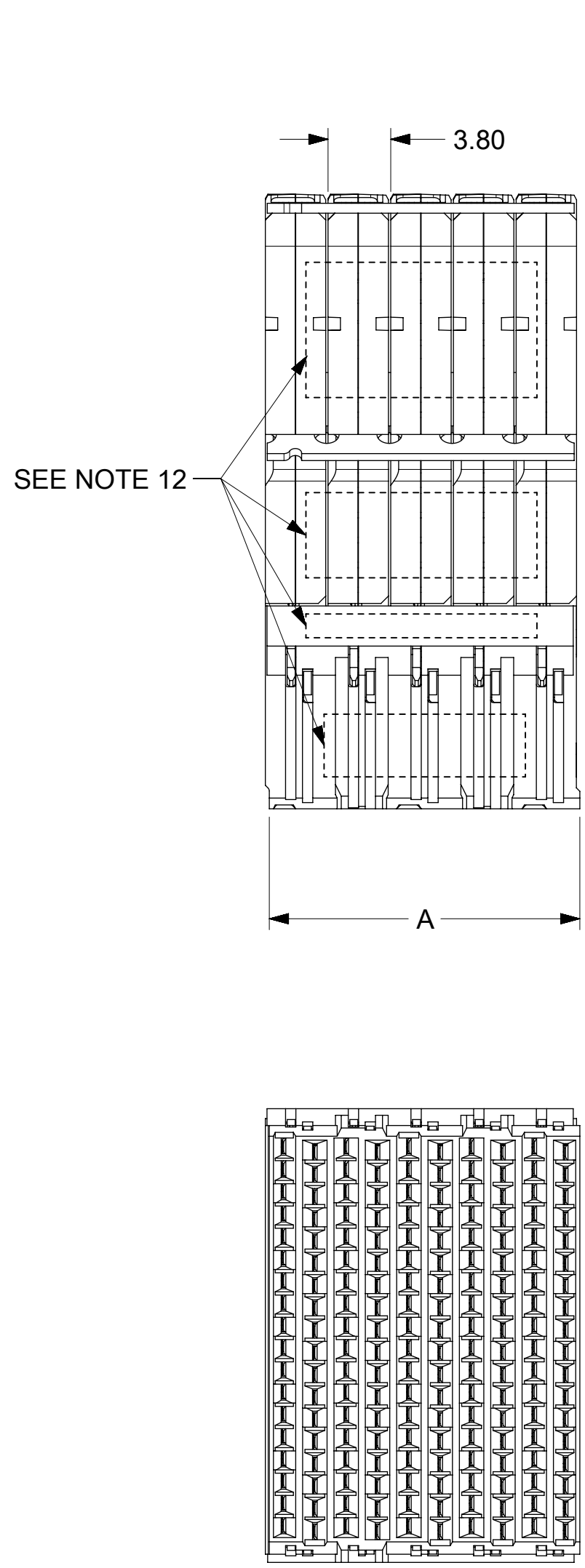8 = 5.50 (MICRO COMPLIANT, 0.39±0.05 PTH)

RELEASE STATUS P1   RELEASE DATE 01.12.2017   12:29:14

IMPACT 6 PAIR
BOARD RELATIONSHIPS

DCARD PCB

BPLANE PCB

BP ROW A

DC HOLE COLUMN
(COLUMN 10 REF.)

DCARD PCB

DCARD ROW A

BPLANE PCB

0.35

OFFSET BETWEEN DC AND
BP HOLE COLUMNS

BP HOLE COLUMN
(COLUMN 10 REF.)

28.9

3.0

MX1

DCARD ROW A

11.95

14.0

BP ROW A

molex

MIGRATED TO NX

EC NO: 168852
DRWN: ABABU01
CHKD: CD
APPR: GGA

2017/10/12
2017/11/30
2017/12/01

REV

GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE
		MM	2:1
ANGULAR TOL ± 2.0 °		DRWN BY	DATE
		JBINGHAM	2010/09/24
4 PLACES	±	CHK'D BY	DATE
3 PLACES	±	JLAURX	2010/09/24
2 PLACES	± 0.13		
1 PLACE	± 0.25	APPR BY	DATE
0 PLACES	±	JLAURX	2013/02/07

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRAWING SIZE: C

THIRD ANGLE PROJECTION

molex®

IMPACT 6-PAIR 85-OHM
UNGUIDED BACKPLANE SALES ASSEMBLY
DRAWING

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
170535	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
SD-170535-0001	PSD	001	3 OF 3

RELEASE STATUS	P1	RELEASE DATE	01.12.2017	12:29:14

E1

FORMAT: master-lb-prod-C
REVISION: G
DATE: 2015/02/06

1.00 MINIMUM BOARD THICKNESS

25.4
24.8
1.2 (TAIL LENGTH)

3.80

SEE NOTE 10

PIN A1

25.90
22.95

11.36

SEE NOTE 12

MX 1

molex

BACKPLANE REFERENCE

(2.1)

BP ROW A

A

27.1

14.00
(FULLY MATED)

SIGNAL HOLES REFERENCE
GROUND HOLE REFERENCE
SEE NOTE 9

0.84
B
1.06
1.90
KEEP-OUT ZONE

25.90
22.95

1.35
17X

1.70
MAXIMUM

PIN A1

0.35
OFFSET BETWEEN DC
AND BP HOLE COLUMNS

ROW T
ROW S
ROW R
ROW P
ROW O
ROW N
ROW M
ROW L
ROW K
ROW J
ROW H
ROW G
ROW F
ROW E
ROW D
ROW C
ROW B
ROW A

⊕ ⌀0.10

⌀ PTH
(SEE TABLE)
(18 HOLES PER COLUMN)
SEE NOTE 3

BACKPLANE REFERENCE

BP PIN A1

DAUGHTERCARD HOLE PATTERN (CONNECTOR SIDE)

NOTES:
1. MATERIALS: HOUSING - LCP (LIQUID CRYSTAL POLYMER), GLASS FILLED, UL94V-0.
   TERMIANLS - HIGH PERFORMANCE COPPER ALLOY.
2. FINISH: 30 MICROINCHES MINIMUM GOLD IN CONTACT AREA;
   SELECTIVE MATTE TIN ON PCB TAILS;
   NICKEL UNDERPLATE OVERALL.
3. REFER TO MOLEX PRODUCT SPECIFICATION PS-170540-999 FOR PERFORMANCE
   SPECIFICATIONS AND ADDITIONAL PCB INFORMATION.
4. EACH SIGNAL WAFER CONTAINS 2 COLUMNS OF TERMINALS.
5. PRODUCT IS PACKAGED PER PK-70873-589.
6. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
7. REFER TO MOLEX SALES DRAWING SD-170535-0001 AND RSD-170532-**** FOR THE MATING HEADERS.
8. REFER TO MOLEX PCB ROUTING GUIDE AS-76060-990 FOR ANTIPAD AND ROUTING RECOMMENDATIONS.
9. GROUND PATHS ARE NOT DISCRETE CIRCUITS WITHIN CONNECTOR DUE TO PRESENCE OF PLUS CLIP.
10. PART NUMBER 170540-1020 SHOWN ON DRAWING. KEYING FEATURES WILL CHANGE WITH COLUMN SIZE.
11. MINIMUM BOARD THICKNESS IS 1.00mm FOR COMPLIANT PIN FUNCTIONALITY.
12. MARKING: LOCATED APPROXIMATELY AS SHOWN, PART NUMBER AND DATE CODE.

SYMBOLS		DIMENSION UNITS	SCALE
▽F = 0		mm	3:1

GENERAL TOLERANCES
(UNLESS SPECIFIED)

ANGULAR TOL ± 0.5°

4 PLACES ±
3 PLACES ±
2 PLACES ± 0.13
1 PLACE ± 0.25
0 PLACES ±

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

CURRENT REV DESC: ADD 14 COL OPTIONS

EC NO: 603057
DRWN: DMORGAN   2018/04/09
CHK'D: TELO   2018/08/28
APPR: TELO   2018/08/28

INITIAL REVISION:
DRWN: KBENES   2012/08/17
APPR: TELO   2012/08/23

molex

IMPACT 6 PAIR PLUS 85OHM
DAUGHTERCARD SIGNAL UNGUIDED SALES
DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-170540-0001	PSD	001	D

THIRD ANGLE PROJECTION | DRAWING | SERIES
C-SIZE | 170540

MATERIAL NUMBER: SEE TABLE
CUSTOMER: GENERAL MARKET
SHEET NUMBER: 1 OF 2

MATERIAL NUMBER	NUMBER OF COLUMNS	NUMBER OF DIFF PAIR	DIMNEISON A MAXIMUM	DIMENSION B	PTH Ø
1705401008	8	48	15.20	13.30	0.46±0.05
1705401010	10	60	19.00	17.10	
1705401014	14	84	26.60	24.70	
1705401016	16	96	30.40	28.50	
1705401038	8	48	15.20	13.30	0.39±0.05
1705401020	10	60	19.00	17.10	
1705401024	14	84	26.60	24.70	
1705401026	16	96	30.40	28.50	

170540- 1 0 * *

MODULE & TAIL PLATING TYPE
1 = UNGUIDED, LEAD-FREE

NUMBER OF COLUMNS

08 = 8 COLUMN 0.46 PTH
10 = 10 COLUMN 0.46 PTH
14 = 14 COLUMN 0.46 PTH
16 = 16 COLUMN 0.46 PTH

38 = 8 COLUMN 0.39 PTH
20 = 10 COLUMN 0.39 PTH
24 = 14 COLUMN 0.39 PTH
26 = 16 COLUMN 0.39 PTH

SYMBOLS

DIMENSION UNITS	mm
SCALE	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 0.5 °
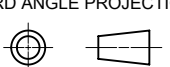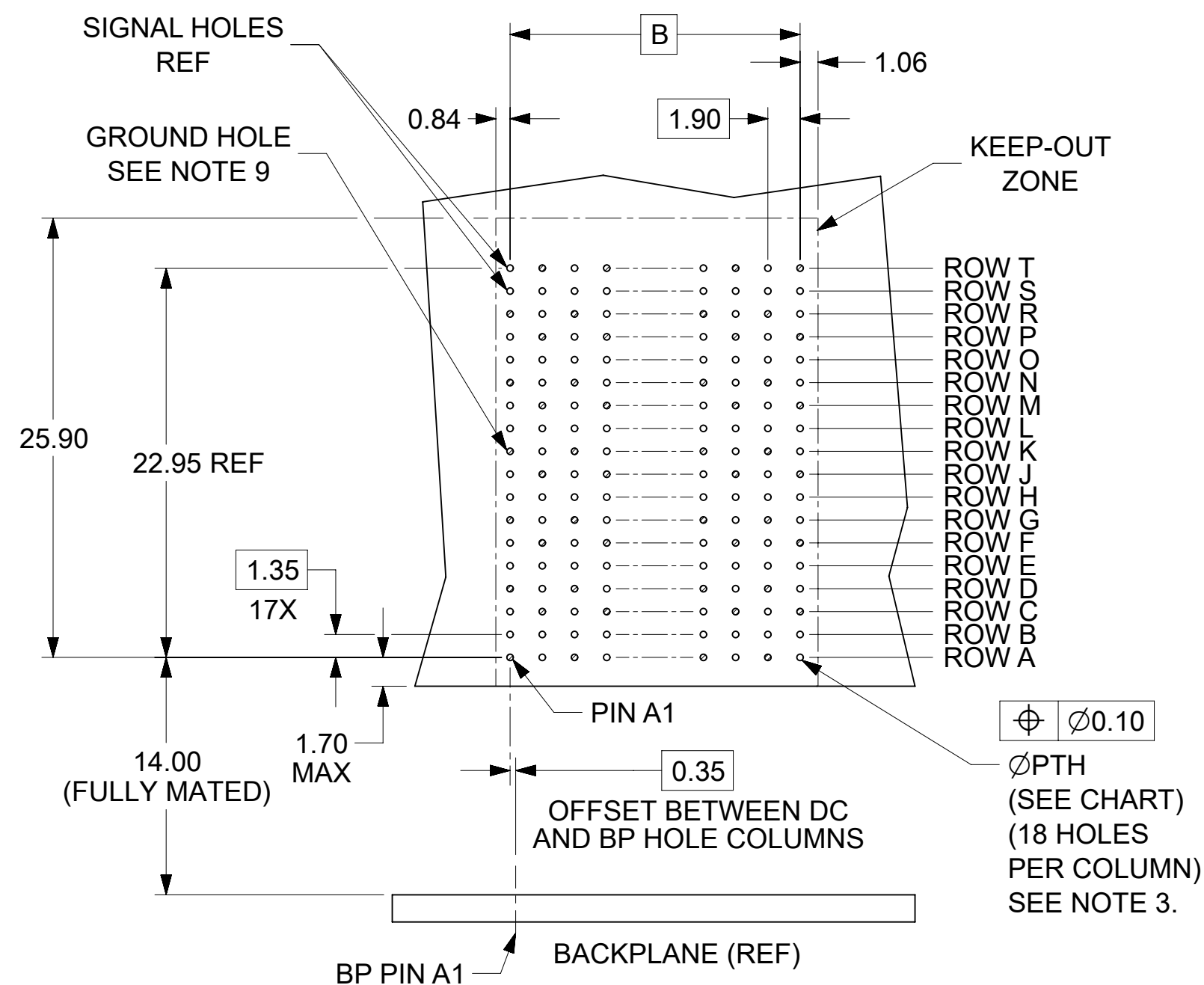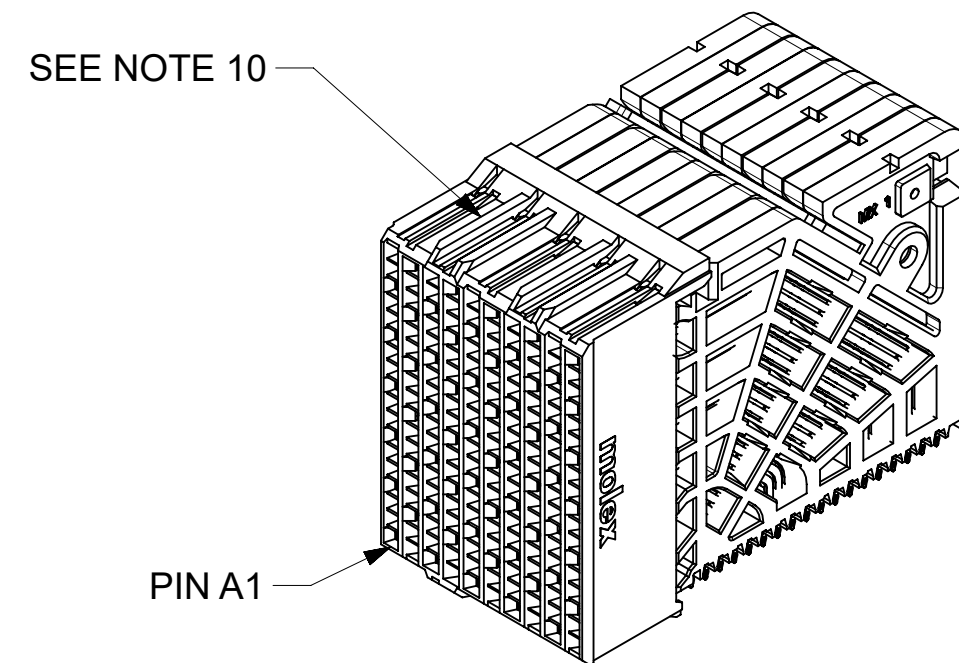
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.13
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADD 14 COL OPTIONS

EC NO: 603057
DRWN: DMORGAN   2018/04/09
CHK'D: TELO   2018/08/28
APPR: TELO   2018/08/28

INITIAL REVISION:
DRWN: KBENES   2012/08/17
APPR: TELO   2012/08/23

THIRD ANGLE PROJECTION

| DRAWING | C-SIZE |
| SERIES | 170540 |

molex

IMPACT 6 PAIR PLUS 85OHM DAUGHTERCARD SIGNAL UNGUIDED SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-170540-0001	PSD	001	D

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	2 OF 2

DOCUMENT STATUS | P1 | RELEASE DATE | 2018/08/28   17:05:04

FORMAT: master-tb-prod-C
REVISION: H
DATE: 2016/01/16

1.00 MIN. BOARD THICKNESS

25.4

3.80

1.2 (TAIL LENGTH)

24.8

SEE NOTE 10

PIN A1

25.90

22.95

11.36

MX 1

molex

BACKPLANE (REF)

(2.1)

BP ROW A

27.1

SIGNAL HOLES REF

B

1.06

GROUND HOLE SEE NOTE 9

0.84

1.90

KEEP-OUT ZONE

ROW T
ROW S
ROW R
ROW P
ROW O
ROW N
ROW M
ROW L
ROW K
ROW J
ROW H
ROW G
ROW F
ROW E
ROW D
ROW C
ROW B
ROW A

25.90

22.95 REF

A

1.35
17X

PIN A1

$\oplus$ $\varnothing$0.10

$\varnothing$PTH
(SEE CHART)
(18 HOLES
PER COLUMN)
SEE NOTE 3.

14.00
(FULLY MATED)

1.70
MAX

0.35

OFFSET BETWEEN DC
AND BP HOLE COLUMNS

BP PIN A1

BACKPLANE (REF)

DAUGHTERCARD HOLE PATTERN (CONNECTOR SIDE)

NOTES:
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0
   TERMINALS - HIGH PERFORMANCE COPPER ALLOY
2. FINISH: 10µIN MIN GOLD IN CONTACT AREA, SELECTIVE TIN
   ON PCB TAILS, NICKEL OVERALL.
3. REFER TO MOLEX PRODUCT SPEC PS-170540-999 FOR PERFORMANCE SPECIFICATIONS
   AND ADDITIONAL PCB INFORMATION.
4. EACH SIGNAL WAFER CONTAINS 2 COLUMNS OF TERMINALS.
5. PRODUCT IS PACKAGED PER PK-70873-589.
6. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002.
7. REFER TO MOLEX SALES DRAWING SD-170535-0001 AND RSD-170532-XXXX FOR THE
   MATING HEADERS.
8. REFER TO MOLEX PCB ROUTING GUIDE AS-76060-990 FOR ANTIPAD AND ROUTING
   RECOMMENDATIONS.
9. GROUND PATHS ARE NOT DISCRETE CIRCUITS WITHIN CONNECTOR DUE TO
   PRESENCE OF PLUS CLIP.
10. PART NUMBER 170540-1020 SHOWN ON DRAWING. KEYING FEATURES WILL CHANGE
    WITH COLUMN SIZE.
11. MINIMUM BOARD THICKNESS IS 1.00MM FOR COMPLIANT PIN FUNCTIONALITY.

DIMENSION UNITS	SCALE	CURRENT REV DESC: REMASTERED TO NX		
mm	NTS		**molex**	

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	± 0.13	±
1 PLACE	± 0.25	±
0 PLACES	±	±
ANGULAR TOL	± 0.5°	

EC NO: 705090
DRWN: SKANDB 2021/10/02
CHK'D: DYARAS 2022/02/10
APPR: LZENG 2022/05/13

INITIAL REVISION:
DRWN: MKRAUSE 2015/02/09
APPR: TELO 2015/03/02

IMPACT 6 PAIR PLUS 85OHM
DAUGHTERCARD SIGNAL UNGUIDED SALES DWG
MAPS

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-173120-0001	PSD	001	B

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
C-SIZE	173120		SEE TABLE	GENERAL MARKET	1 OF 2

FORMAT: Eng-rega-master-tb-prod-C
REVISION: X1
DATE: 2021/05/01

MATERIAL NUMBER	# OF COLUMNS	# OF DIFF PAIR	DIM "A" MAX	DIM "B"	PTH∅
173120-1008	8	48	15.20	13.30	0.46 ±0.05
173120-1010	10	60	19.00	17.10	
173120-1016	16	96	30.40	28.50	
173120-1038	8	48	15.20	13.30	0.39 ±0.05
173120-1020	10	60	19.00	17.10	
173120-1026	16	96	30.40	28.50	

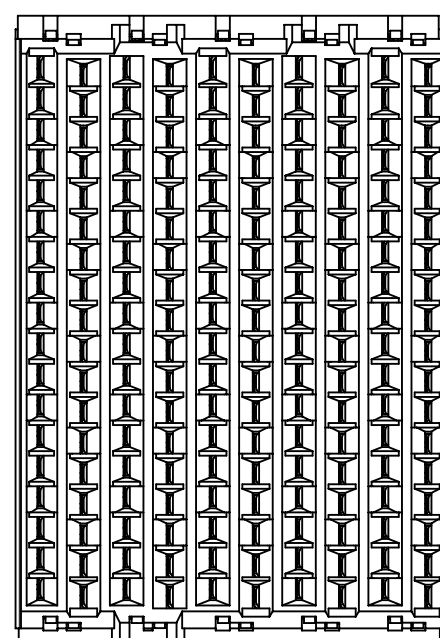# 173120-10**

MODULE & TAIL PLATING TYPE
1 = UNGUIDED, LEAD-FREE

# OF COLUMNS
08 = 8 COL 0.46 PTH
10 = 10 COL 0.46 PTH
16 = 16 COL 0.46 PTH
20 = 10 COL 0.39 PTH
26 = 16 COL 0.39 PTH
38 = 08 COL 0.39 PTH

DIMENSION UNITS	SCALE
mm	NTS

CURRENT REV DESC: REMASTERED TO NX

molex

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	MM	INCH
4 PLACES	±	±
3 PLACES	±	±
2 PLACES	± 0.13	±
1 PLACE	± 0.25	±
0 PLACES	±	±
ANGULAR TOL	± 0.5 °	

EC NO: 705090
DRWN: SKANDB   2021/10/02
CHK'D: DYARAS   2022/02/10
APPR: LZENG   2022/05/13

INITIAL REVISION:
DRWN: MKRAUSE   2015/02/09
APPR: TELO   2015/03/02

IMPACT 6 PAIR PLUS 85OHM
DAUGHTERCARD SIGNAL UNGUIDED SALES DWG
MAPS

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-173120-0001	PSD	001	B

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
C-SIZE	173120	SEE TABLE	GENERAL MARKET	2 OF 2

DOCUMENT STATUS   P1   RELEASE DATE   2022/05/13   03:05:16

FORMAT: Eng-rega-master-tb-prod-C
REVISION: B1
DATE: 2021/05/01