A
B
1.90
8X 1.35
10.80
16.7 +0.2 -0.5

Z

11.95
1.4
TAIL LENGTH

P ±0.20
(PIN LENGTH)

SECTION Z-Z
1.00
MINIMUM
BOARD

0.95
B
1.90
0.95
1.35 (ADD FOR END WALL)
PIN A1
1.35 (ADD FOR END WALL)
2.95
16.7
10.80

ROW A
ROW B
ROW C
ROW D
ROW E
ROW F
ROW G
ROW H
ROW J

SIGNAL HOLES REF
GROUND HOLE REF

1.35
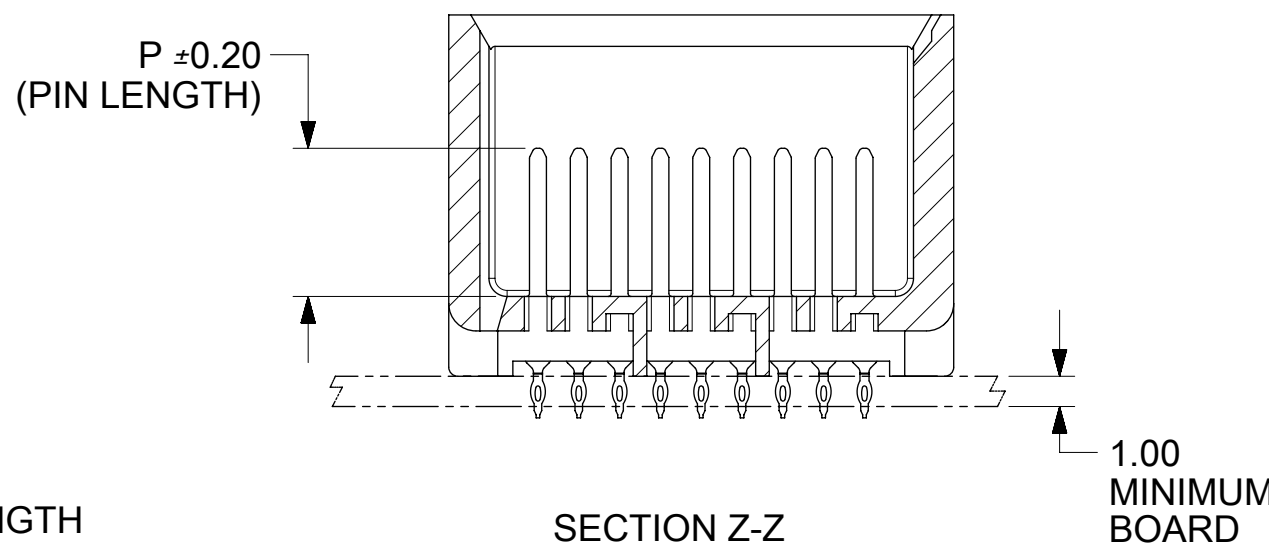8X

KEEP-OUT ZONE

⌖ | ⌀0.10
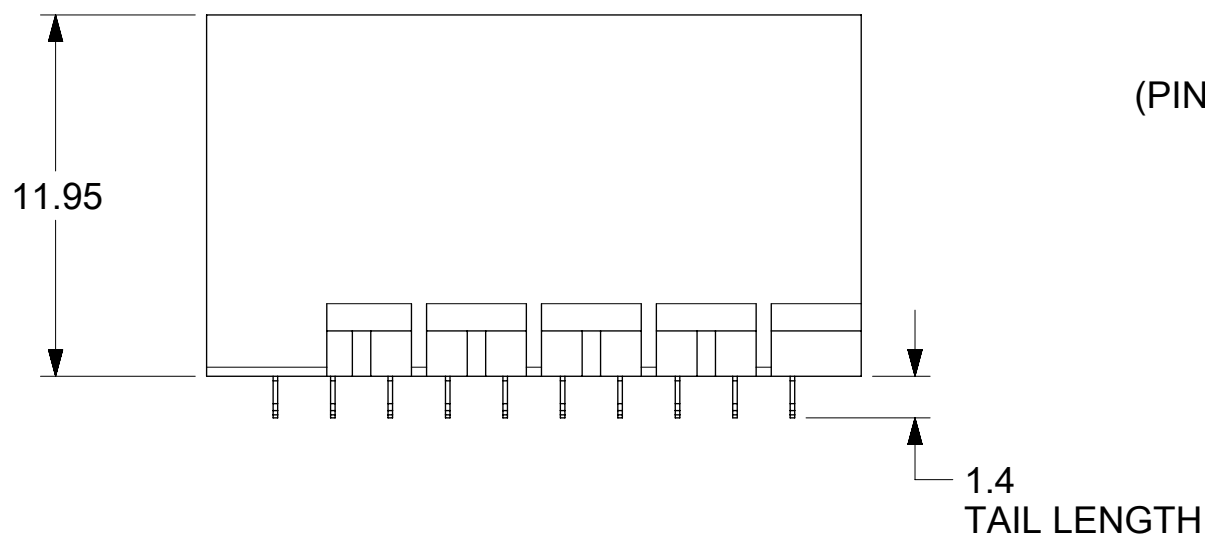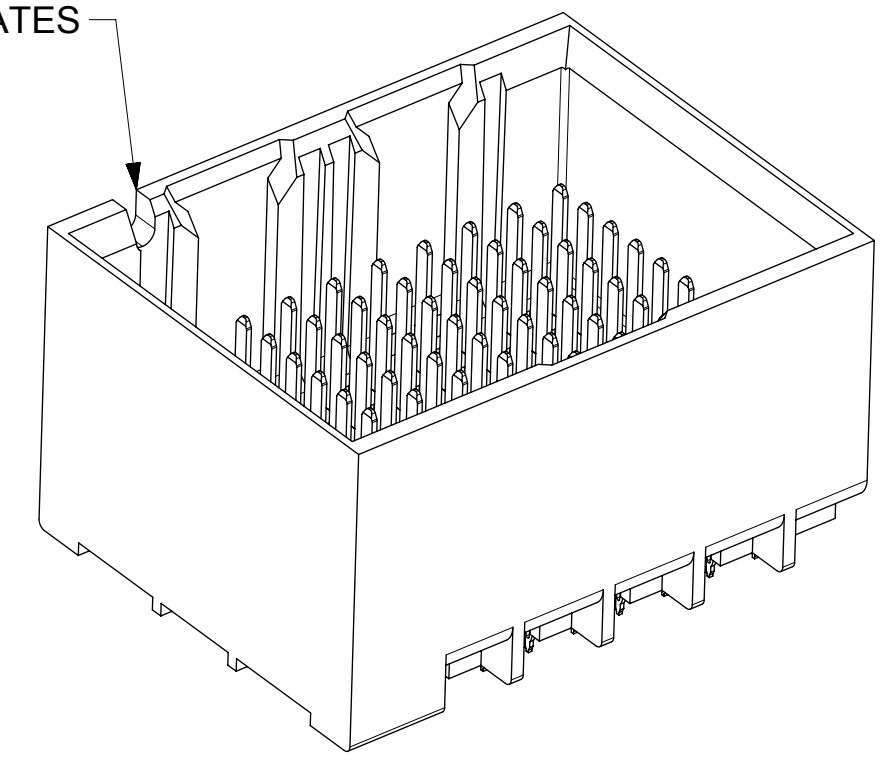
SEE PART NUMBER CHART
AND
PART NUMBER LOGIC
(9 HOLES PER COLUMN)

UNGUIDED
BACKPLANE HOLE PATTERN
(CONNECTOR SIDE)
SEE NOTE 9

NOTCH DESIGNATES
ROW A

NOTES:
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP)
   GLASS-FILLED, UL94V-0
   TERMINALS - HIGH PERFORMANCE COPPER ALLOY
2. FINISH: 30μ MIN GOLD IN CONTACT AREA.
   SELECTIVE TIN ON PCB TAILS.
   NICKEL OVERALL.
3. REFER TO MOLEX PRODUCT SPECIFICATION PS-76060-999 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-70873-7700.
6. SEE SHEETS 2 & 3 FOR PART NUMBERS AND BOARD RELATIONSHIPS.
7. MATES WITH IMPACT DC SERIES NO. 76170.
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 STACKED TOGETHER. USE A 1.9mm PROGRESSION."

QUALITY SYMBOLS
▽ = 0
▽ = 0
▽ = 0
▼ = 0
▽ = 0
⊠ = 0
■ = 0
▽ = 0

MIGRATED TO NX
EC NO: 123283
DRWN: KUCHILA
CHK'D: KUCHILA
APPR: PRAMASWAMY

2017/10/13
2017/10/13
2017/10/18

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

DIMENSION UNITS: mm
SCALE: 4:1

DRWN BY: TIBARRA   DATE: 2012/11/26
CHK'D BY: JBINGHAM   DATE: 2012/12/18
APPR BY: SMILLER   DATE: 2012/12/31

DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex

IMPACT BP 3 PAIR
UNGUIDED ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

SERIES: 76165
MATERIAL NUMBER: SEE CHART
CUSTOMER: GENERAL MARKET

DOCUMENT NUMBER: SD-76165-001
DOC TYPE: PSD
DOC PART: 001
SHEET NUMBER: 1 OF 3

REV: J1

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

PART NUMBER CHART

MATERIAL NUMBER	# OF COLUMNS	# OF DIFF PAIR	DIM "A"	DIM "B"	
76165-*32*	6	18	14.1	9.50	DUAL END WALL OPTION
76165-*82*	8	24	17.9	13.30	
76165-*12*	10	30	21.7	17.10	
76165-*62*	16	48	33.1	28.50	
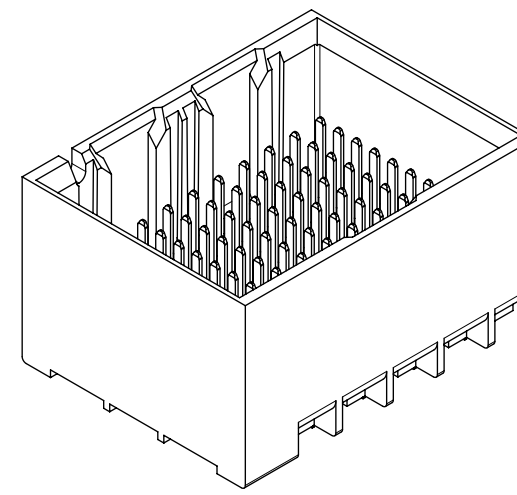
DUAL END WALL OPTION

MATERIAL NUMBER	# OF COLUMNS	# OF DIFF PAIR	DIM "A"	DIM "B"	
76165-*31*	6	18	12.7	9.50	LEFT END WALL OPTION
76165-*81*	8	24	16.5	13.30	
76165-*11*	10	30	20.3	17.10	
76165-*61*	16	48	31.7	28.50	
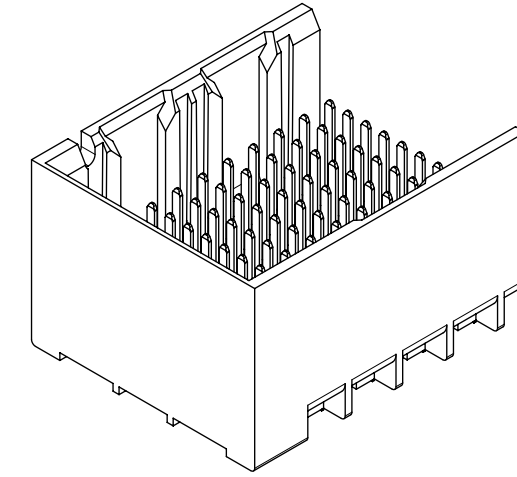
LEFT END WALL OPTION

MATERIAL NUMBER	# OF COLUMNS	# OF DIFF PAIR	DIM "A"	DIM "B"	
76165-*33*	6	18	12.7	9.50	RIGHT END WALL OPTION
76165-*83*	8	24	16.5	13.30	
76165-*13*	10	30	20.3	17.10	
76165-*63*	16	48	31.7	28.50	
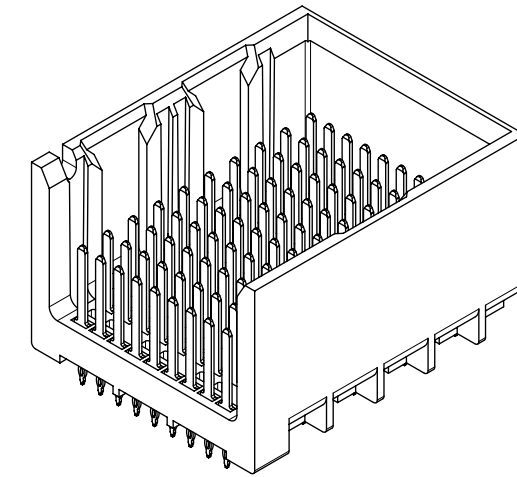
RIGHT END WALL OPTION

MATERIAL NUMBER	# OF COLUMNS	# OF DIFF PAIR	DIM "A"	DIM "B"	
76165-*30*	6	18	11.3	9.50	OPEN WALL OPTION
76165-*80*	8	24	15.1	13.30	
76165-*10*	10	30	18.9	17.10	
76165-*60*	16	48	30.4	28.50	
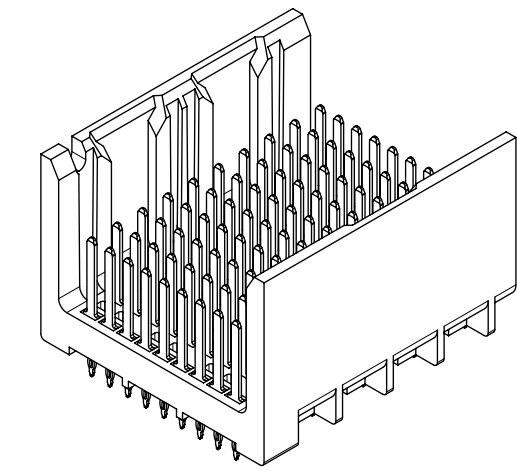
OPEN WALL OPTION

PART NUMBER LOGIC

76165- * * * *

MODULE TYPE
1 = UNGUIDED, TIN

 # OF COLUMNS
1 = 10 COL
3 = 6 COL
6 = 16 COL
8 = 8 COL

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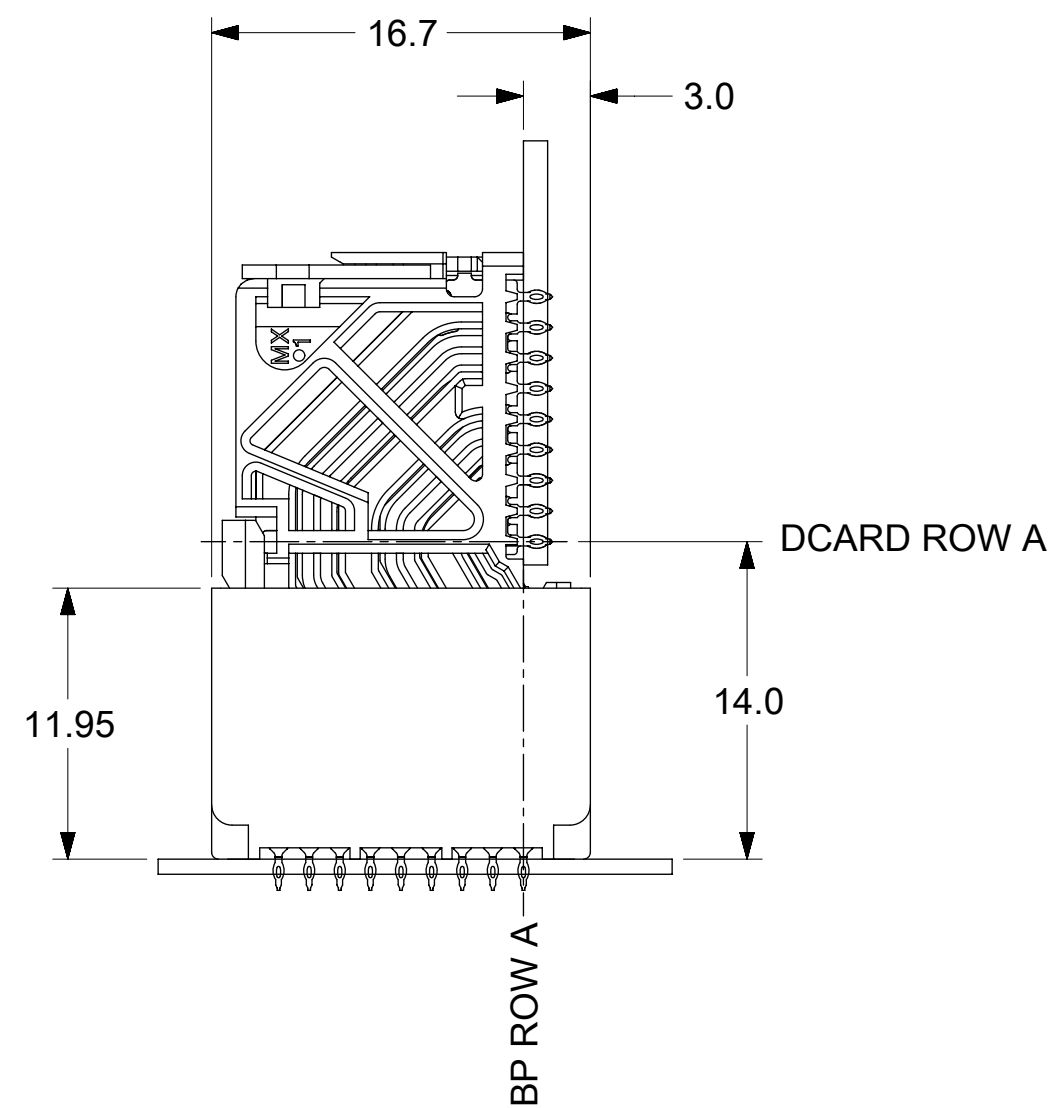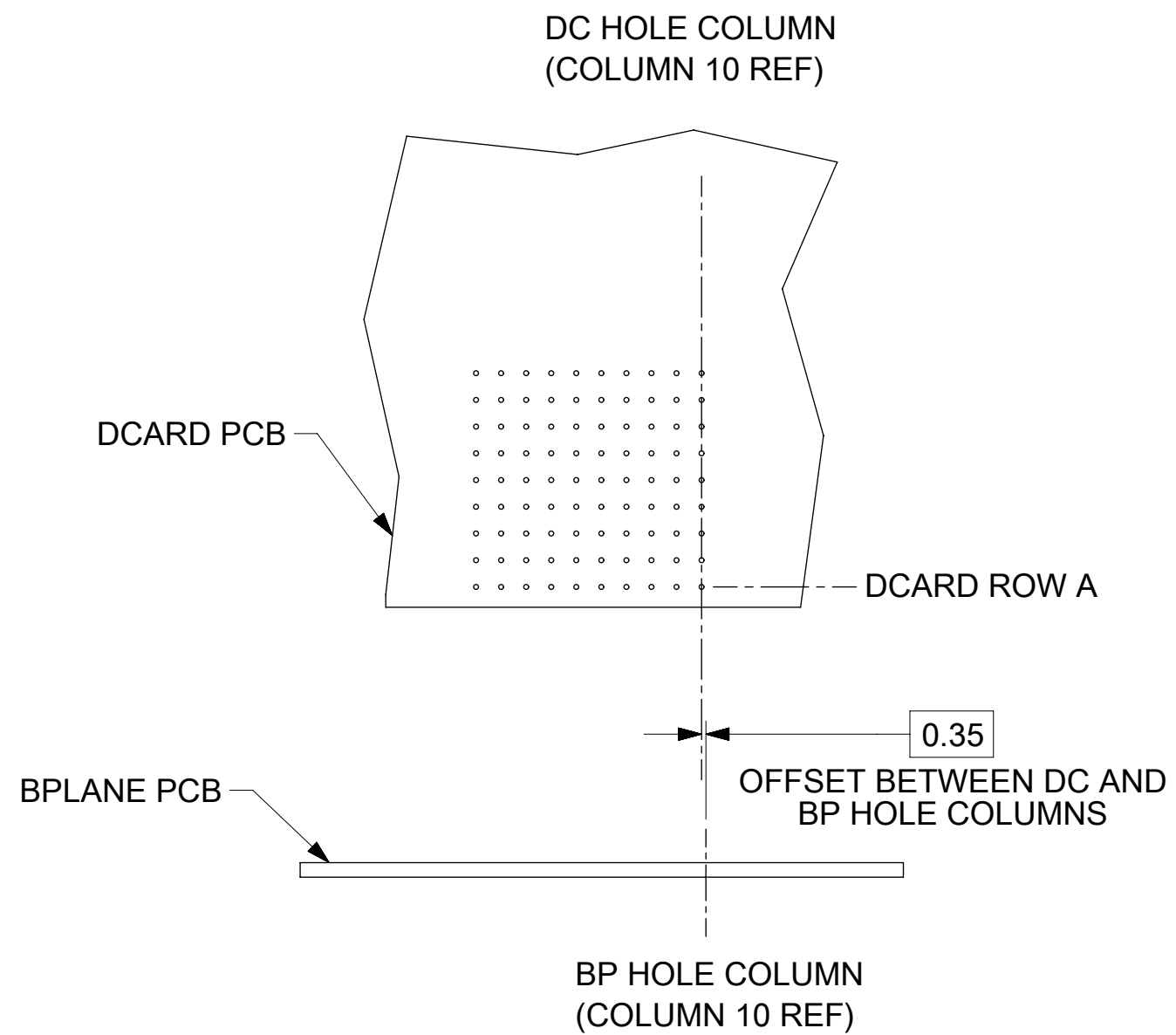1 = LEFT END WALL
2 = DUAL END WALL
3 = RIGHT END WALL

PIN LENGTH (P)
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)

QUALITY SYMBOLS

⏷	=	0
⏷	=	0
⏷	=	0
▼	=	0
▽	=	0
⊠	=	0
■	=	0
⏷	=	0

EC NO: 123283
DRWN: KUCHILA
CHK'D: KUCHILA
APPR: PRAMASWAMY

MIGRATED TO NX
2017/10/13
2017/10/13
2017/10/18

REV | J1

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

DIMENSION UNITS: mm
SCALE: 2.5:1

DRWN BY: TIBARRA — DATE: 2012/11/26
CHK'D BY: JBINGHAM — DATE: 2012/12/18
APPR BY: SMILLER — DATE: 2012/12/31

DRAWING SIZE: C
THIRD ANGLE PROJECTION

molex®

IMPACT BP 3 PAIR
UNGUIDED ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
76165	SEE CHART	GENERAL MARKET

DOCUMENT NUMBER: SD-76165-001
DOC TYPE: PSD
DOC PART: 001
SHEET NUMBER: 2 OF 3

DCARD PCB

BP ROW A

BPLANE PCB

IMPACT 3 PAIR
BOARD RELATIONSHIPS

DC HOLE COLUMN
(COLUMN 10 REF)

DCARD PCB

DCARD ROW A

0.35

OFFSET BETWEEN DC AND
BP HOLE COLUMNS

BPLANE PCB

BP HOLE COLUMN
(COLUMN 10 REF)

16.7

3.0

MX C1

DCARD ROW A

11.95

14.0

BP ROW A

QUALITY SYMBOLS		
▽ = 0		
▽ = 0		
▽ = 0		
▼ = 0		
▽ = 0		
⊠ = 0		
■ = 0		
▽ = 0		

MIGRATED TO NX
EC NO: 123283
DRWN: KUCHILA
CHK'D: KUCHILA
APPR: PRAMASWAMY

2017/10/13
2017/10/13
2017/10/18

REV

J1

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

DIMENSION UNITS: mm   SCALE: 1:1

DRWN BY: TIBARRA   DATE: 2012/11/26

CHK'D BY: JBINGHAM   DATE: 2012/12/18

APPR BY: SMILLER   DATE: 2012/12/31

DRAWING SIZE: C   THIRD ANGLE PROJECTION

molex®

IMPACT BP 3 PAIR
UNGUIDED ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

SERIES: 76165   MATERIAL NUMBER: SEE CHART   CUSTOMER: GENERAL MARKET

DOCUMENT NUMBER: SD-76165-001   DOC TYPE: PSD   DOC PART: 001   SHEET NUMBER: 3 OF 3

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