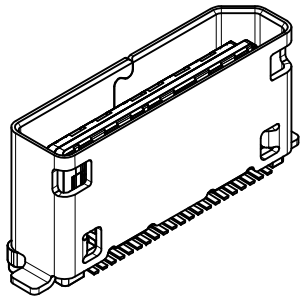
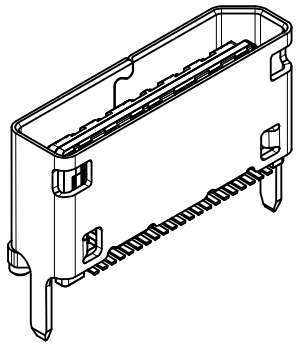
STATUS	MATERIAL NUMBER	PIN OUT OPTIONS	MATING LEVELS	CIRCUIT SIZE	SHELL ATTACH OPTION	DUST CAP COLOR
TOOLED	171983-0142	4X	3	42	SMT	BLACK
TOOLED	171983-2042	4X	3	42	TH	BLACK

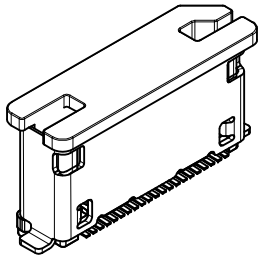
42 CIRCUIT SMT SHELL



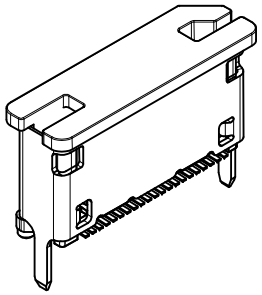
42 CIRCUIT THRU HOLE SHELL



42 CIRCUIT SMT SHELL W/ CAP



42 CIRCUIT THRU HOLE SHELL W/ CAP



NOTES:

1. MATERIALS:
   HOUSING - GLASS FILLED THERMOPLASTIC, 94V-0
   CONTACTS - HIGH PERFORMANCE COPPER ALLOY
   SHIELD - STAINLESS STEEL

2. FINISH:
   CONTACTS - 0.76µm MIN. GOLD MATING SIDE
   2.54µm TIN ON SOLDER TAILS
   2.0µm MIN. NICKEL UNDERPLATE OVERALL

   SHIELD - MATTE TIN OVER 1.27µm MIN. NICKEL

3. PRODUCT SPECIFICATION: PS-171982-0001

4. PACKAGING SPECIFICATION: PK-171982-9000

5. MATES WITH: MOLEX CABLE SERIES 100436
   PER INDUSTRY STANDARD PCIe OCuLink OR SFF-8612

6. APPLICATION SPECIFICATION: AS-173162-0001

7. COSMETIC SPECIFICATION: PS-45499-002

8. ASSEMBLY PART NUMBER AND DATE CODE TO BE
   LOCATED APPROXIMATELY AS SHOWN. DATE CODE
   TO SHOW THE DATE AND YEAR OF ASSEMBLY (DDDY OR YDDD)

UPDATE VIEWS
EC NO: UCP2016-2233
DRWN:MJANTELEZIO 2015/11/13
CHKD:
APPR:MBANAKIS 2015/12/01
DESCRIPTION
REV
D1

QUALITY SYMBOLS
⌀=0 4 PLACES
⌀=0 3 PLACES
⌀=0 2 PLACES
⌀=0 1 PLACE
⌀=0 0 PLACE

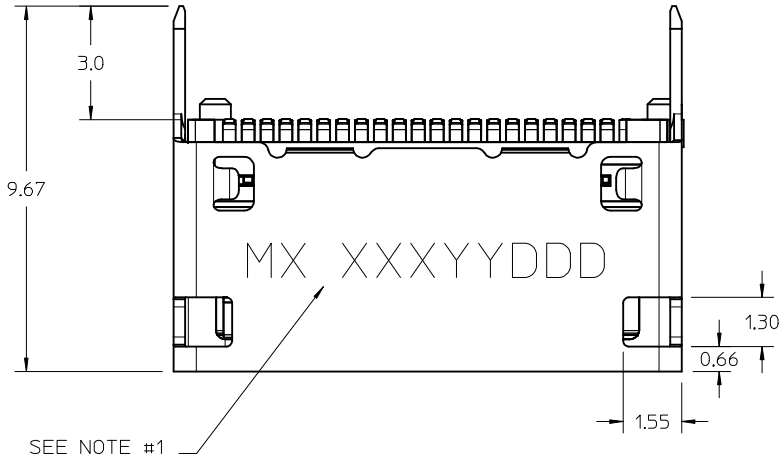
GENERAL TOLERANCES (UNLESS SPECIFIED)

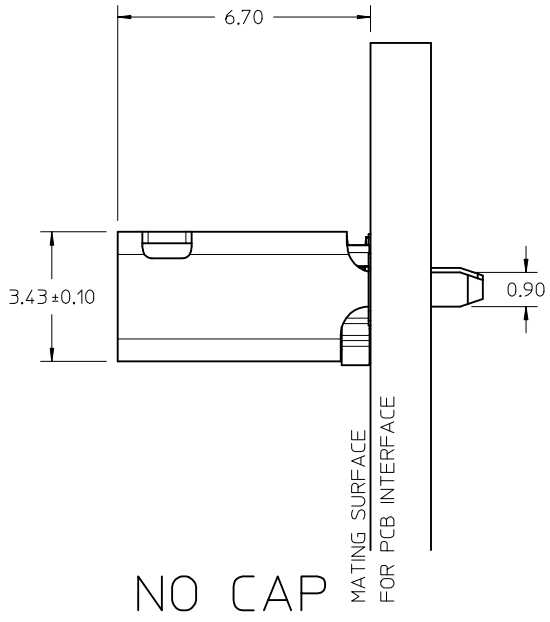
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	± ---	± ---

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

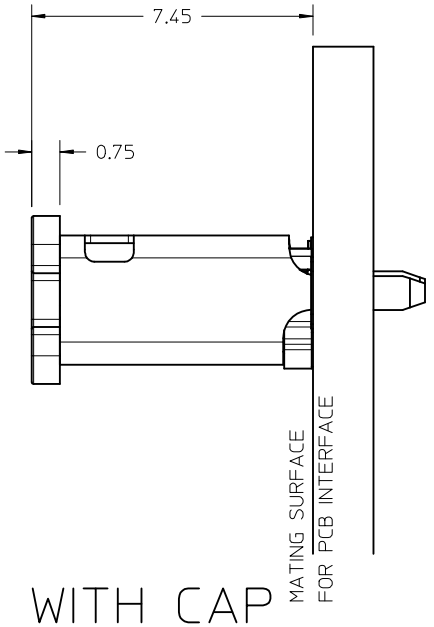
DIMENSION STYLE: MM ONLY
SCALE: 10:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION
DRAWN BY: MJANTELEZIO DATE: 2015/10/22
CHECKED BY: DATE:
APPROVED BY: MBANAKIS DATE: 2015/11/09
MATERIAL NO.: SEE CHART
TITLE: NANO PITCH I/O VERTICAL PRE R1.0 - 16 GT/S
DOCUMENT NO.: SD-171983-1000
SHEET NO.: 1 OF 6
SIZE: D

42 CIRCUIT TH ASSEMBLY

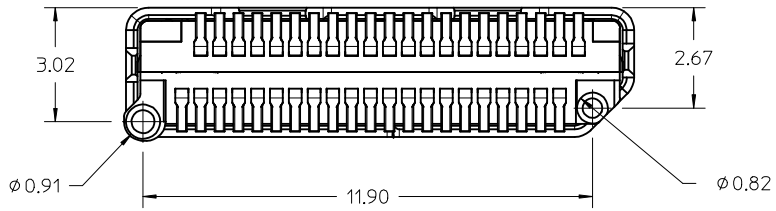




NO CAP



WITH CAP



NOTES:
1. PLANT CODE, MANUFACTURED DATE CODE (JULIAN CALENDAR) AND PART NUMBER
2. SOLDER TAIL COPLANARITY 0.10 MAX

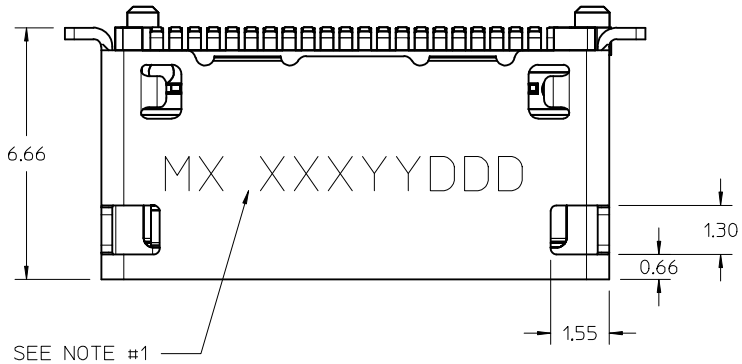
SEE SHEET 1	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE: MM ONLY
EC NO: UCP2016-2233		mm / INCH	SCALE: 10:1
DRWN: MJANTELEZIO 2015/11/13		4 PLACES ± --- / ± ---	DESIGN UNITS: METRIC
CHKD:		3 PLACES ± --- / ± ---	THIRD ANGLE PROJECTION
APPR: MBANAKIS 2015/12/01		2 PLACES ± 0.13 / ± ---	DRAWN BY: MJANTELEZIO DATE: 2015/10/22
DESCRIPTION		1 PLACE ± 0.25 / ± ---	CHECKED BY: DATE:
D1		0 PLACE ± --- / ± ---	APPROVED BY: MBANAKIS DATE: 2015/11/09
REV		ANGULAR ±1/2°	MATERIAL NO.: SEE SHEET 1
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE: C

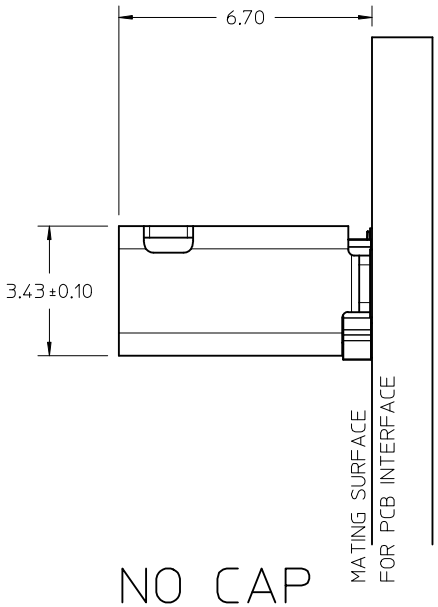
TITLE: NANO PITCH I/O VERTICAL PRE R1.0 - 16 GT/S

molex

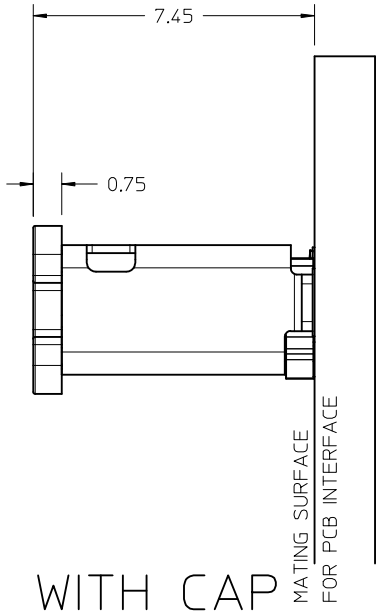
DOCUMENT NO.: SD-171983-1000 SHEET NO.: 2 OF 6

42 CIRCUIT SMT ASSEMBLY

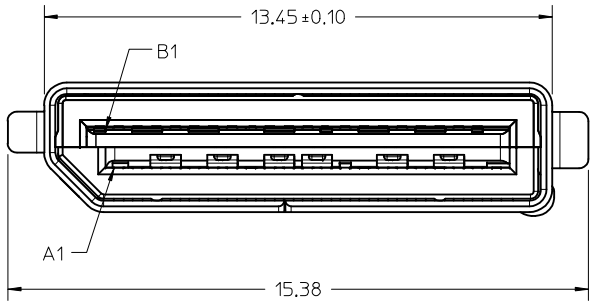


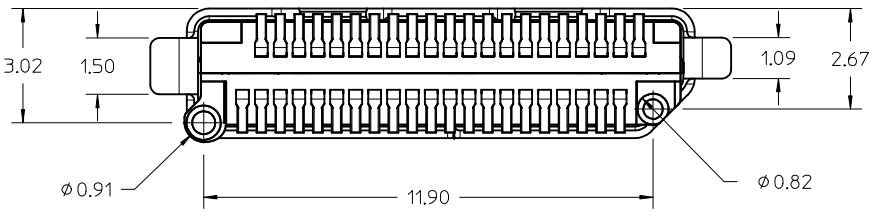


NO CAP



WITH CAP

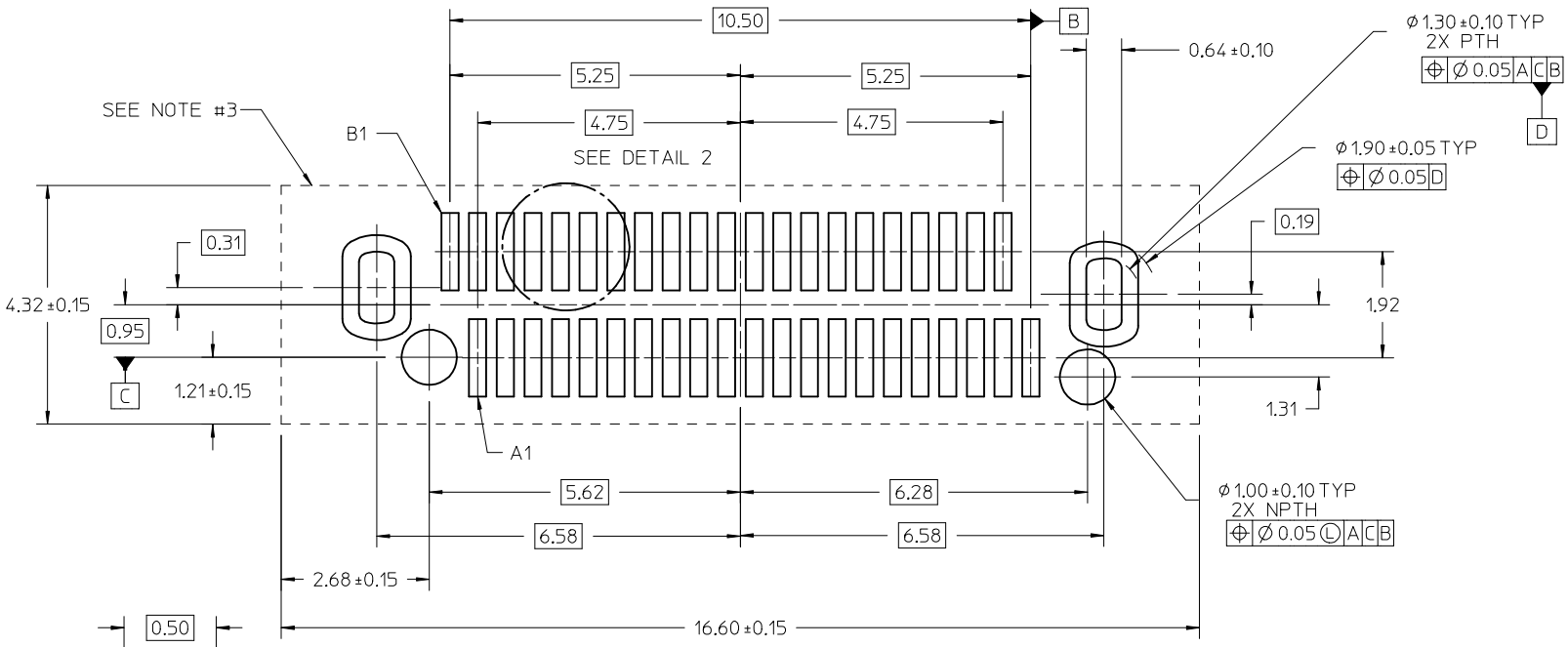


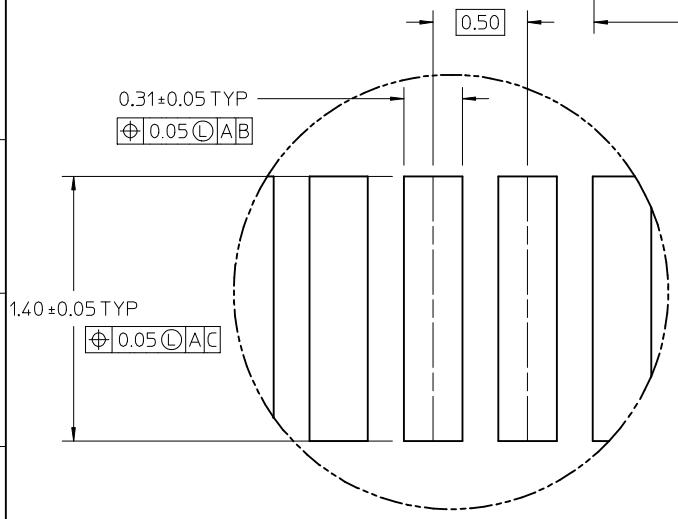


NOTES:
1. PLANT CODE, MANUFACTURED DATE CODE (JULIAN CALENDAR) AND PART NUMBER
2. SOLDER TAIL COPLANARITY 0.10 MAX

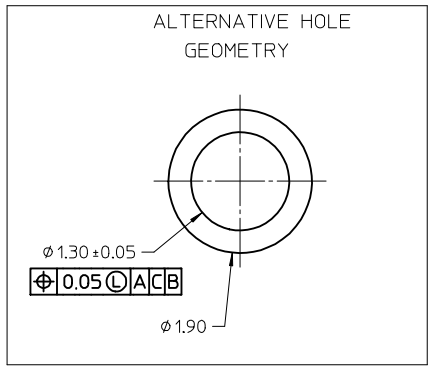
SEE SHEET 1	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
EC NO: UCP2016-2233			mm / INCH	MM ONLY	10:1	METRIC	
DRWN:MJANTELEZIO 2015/11/13		4 PLACES	± --- / ± ---	DRAWN BY / DATE	TITLE		
CHKD:		3 PLACES	± --- / ± ---	MJANTELEZIO 2015/10/22	NANO PITCH I/O VERTICAL PRE R1.0 - 16 GT/S		
APPR:MBANAKIS 2015/12/01		2 PLACES	± 0.13 / ± ---	CHECKED BY / DATE			
DESCRIPTION		1 PLACE	± 0.25 / ± ---	APPROVED BY / DATE	molex		
REV		0 PLACE	± --- / ± ---	MBANAKIS 2015/11/09			
D1		ANGULAR ±1/2°		MATERIAL NO.	DOCUMENT NO.		SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1	SD-171983-1000		3 OF 6
				SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

42 CIRCUIT TAIL RECOMMENDED FOOTPRINT





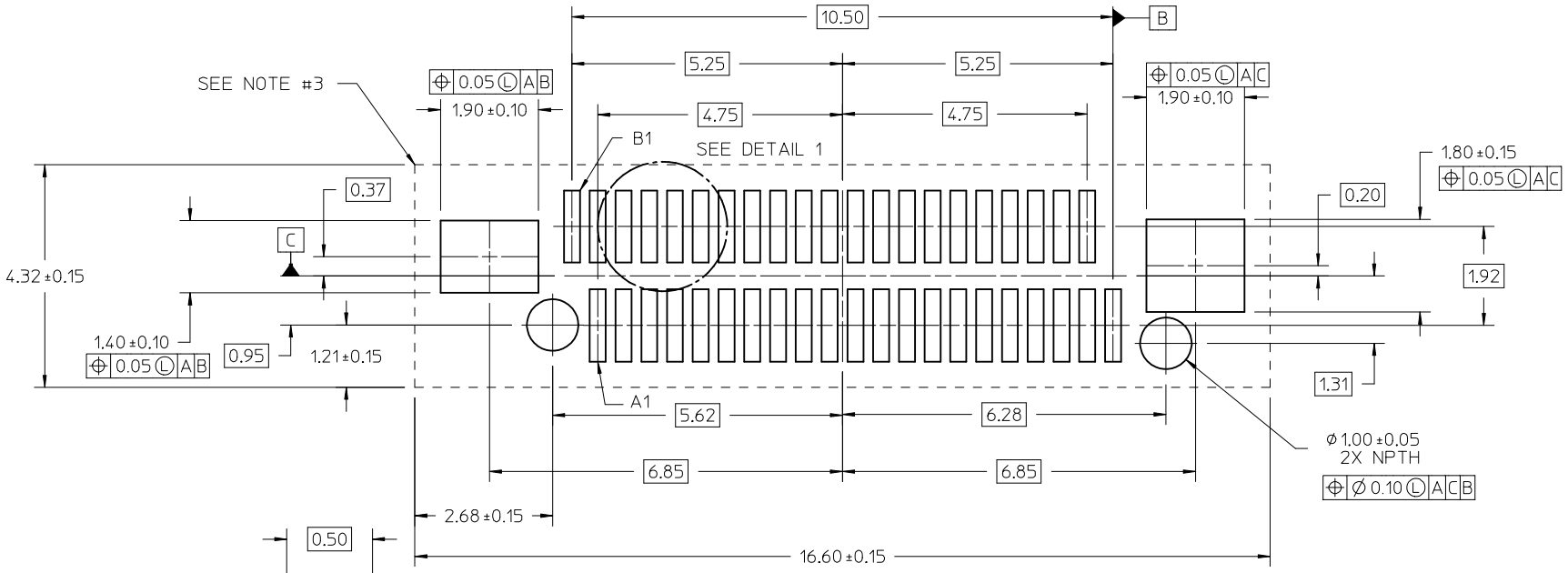
DETAIL 2
SCALE 50:1

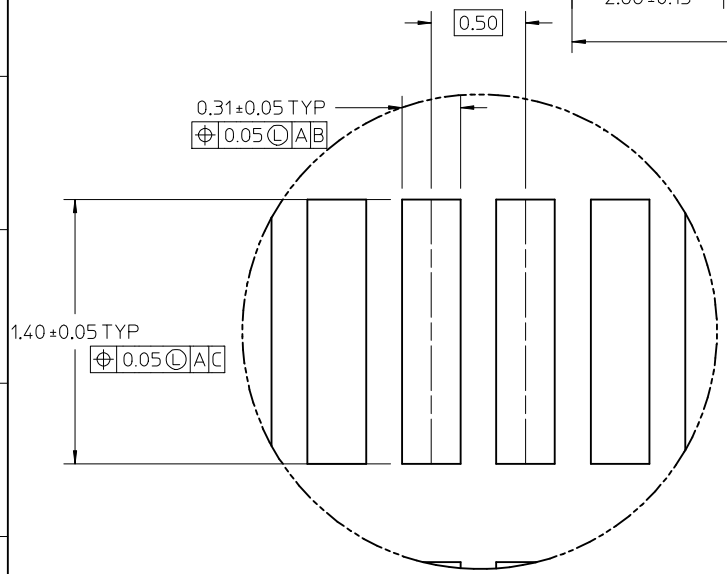


NOTES:
1. MINIMUM RECOMMENDED SPACING IS 17.25mm
2. MINIMUM RECOMMENDED PCB THICKNESS: 1.57mm
3. CONNECTOR KEEP OUT AREA
4. DATUM -A- ESTABLISHED FROM TOP SURFACE OF PCB

SEE SHEET 1	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
EC NO: UCP2016-2233			mm	INCH	MM ONLY	15:1	METRIC				
DRWN:MJANTELEZIO 2015/11/13		4 PLACES	± ---	± ---	DRAWN BY MJANTELEZIO	DATE 2015/10/22	TITLE	NANO PITCH I/O VERTICAL PRE R1.0 - 16 GT/S			
CHKD:		3 PLACES	± ---	± ---	CHECKED BY	DATE					
APPR:MBANAKIS 2015/12/01		2 PLACES	± 0.13	± ---							
DESCRIPTION		1 PLACE	± 0.25	± ---	APPROVED BY MBANAKIS	DATE 2015/11/09	molex				
		0 PLACE	± ---	± ---							
		ANGULAR ±1/2°			MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-171983-1000		SHEET NO. 4 OF 6		
D1		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE C						
REV											

42 CIRCUIT SMT RECOMMENDED FOOTPRINT





DETAIL 1
SCALE 50:1

NOTES:
1. MINIMUM RECOMMENDED SPACING IS 17.25mm
2. MINIMUM RECOMMENDED PCB THICKNESS: 1.57mm
3. CONNECTOR KEEP OUT AREA
4. DATUM -A- ESTABLISHED FROM TOP SURFACE OF PCB

SEE SHEET 1
EC NO: UCP2016-2233
DRWN: MJANTELEZIO 2015/11/13
CHKD:
APPR: MBANAKIS 2015/12/01
DESCRIPTION
REV
D1

QUALITY SYMBOLS
=0
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	± ---	± ---

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 15:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

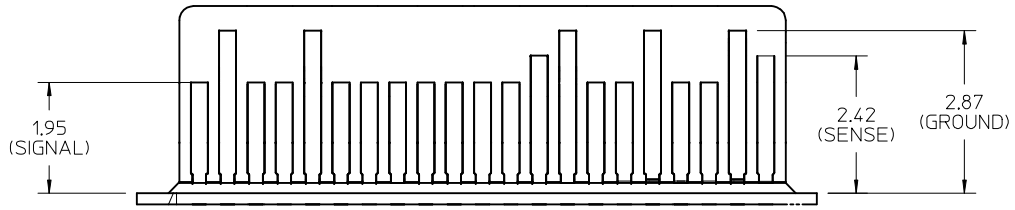
DRAWN BY: MJANTELEZIO DATE: 2015/10/22
CHECKED BY: DATE:
APPROVED BY: MBANAKIS DATE: 2015/11/09
MATERIAL NO.: SEE SHEET 1

TITLE: NANO PITCH I/O VERTICAL PRE R1.0 - 16 GT/S

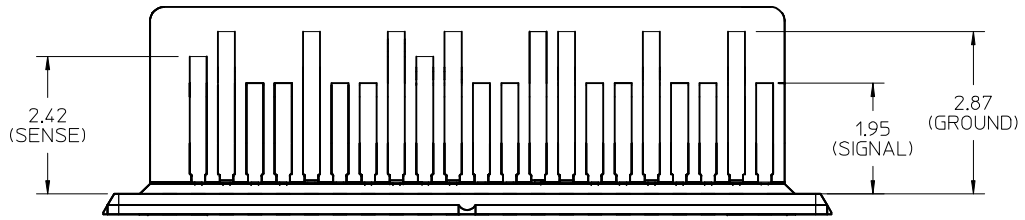
molex

DOCUMENT NO.: SD-171983-1000
SHEET NO.: 5 OF 6
SIZE: C

INTERFACE PATTERN



42 CIRCUITS
BOTTOM
SCALE 15:1



42 CIRCUITS
TOP
SCALE 15:1

ADDED VIEWS
EC NO: UCP2016-2233
DRWN:MJANTELEZIO 2015/11/13
CHKD:
APPR:MBANAKIS 2015/12/01
DESCRIPTION
REV
D1

QUALITY SYMBOLS
F1 =0
F2 =0
F3 =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
0 PLACE	± ---	± ---

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 15:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: MJANTELEZIO DATE: 2015/10/22
CHECKED BY: DATE:
APPROVED BY: MBANAKIS DATE: 2015/11/09
MATERIAL NO.: SEE SHEET 1

TITLE: NANO PITCH I/O VERTICAL PRE R1.0 - 16 GT/S

molex

DOCUMENT NO.: SD-171983-1000
SHEET NO.: 6 OF 6
SIZE: C