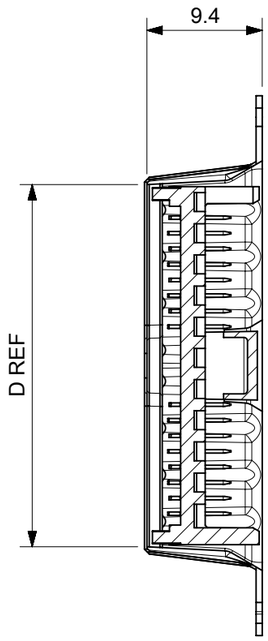
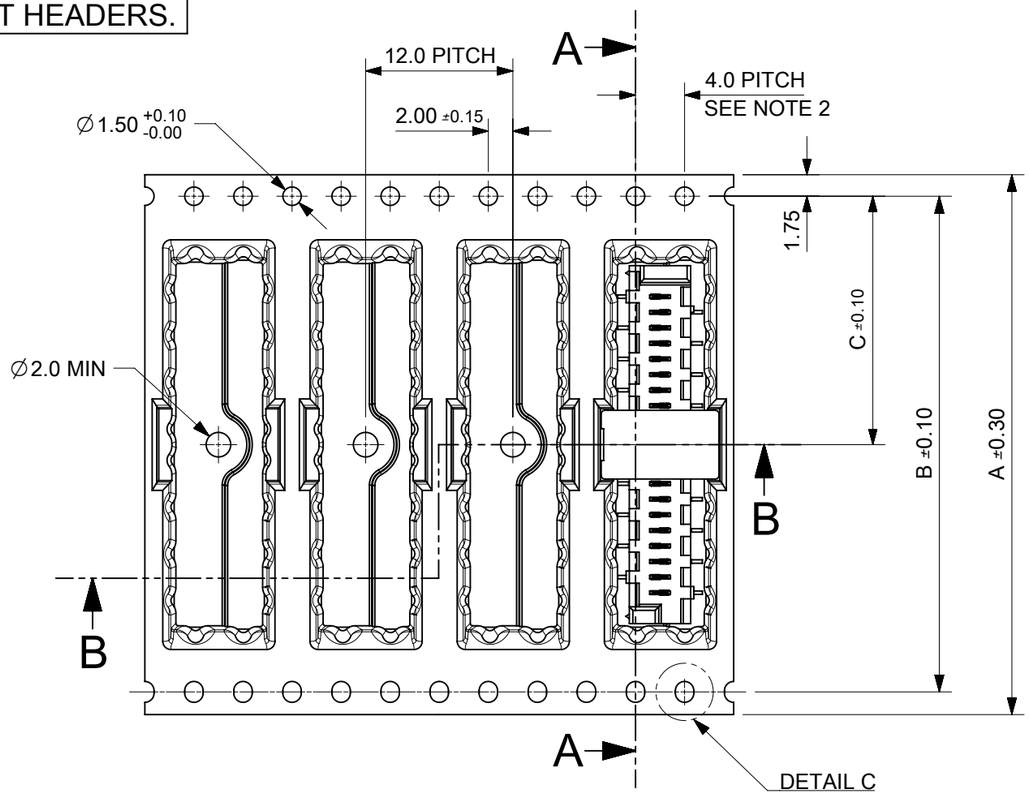
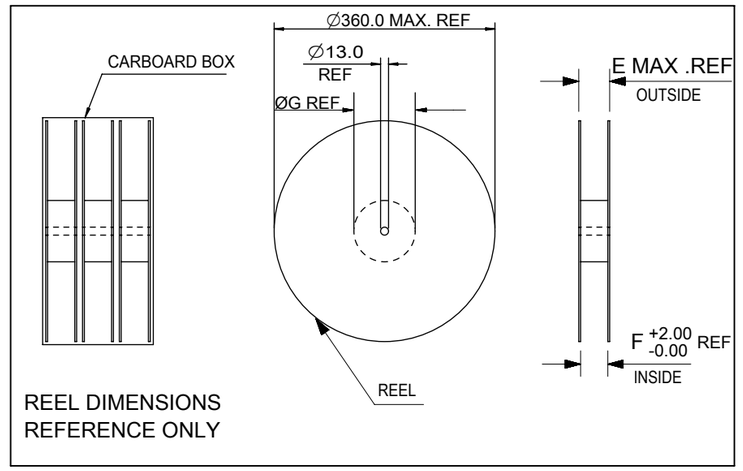
CARRIER TAPE FOR STANDARD SMT HEADERS.

PART NUMBER	NO. OF CKTS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	PIECES PER BOX	REELS PER BOX	PIECES PER REEL
90814-*220/-*520	20	44.0	40.4	20.2	29.5	50.4	44.4	100.0	1800	3	600
90814-*218/-*518	18										
90814-*216/-*516	16										
90814-*214/-*514	14										
90814-*212/-*512	12										
90814-*210/-*510	10										
90814-*208/-*508	8										
90814-*206/-*506	6										
90814-*204/-*504	4										

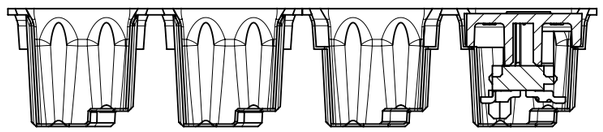


SECTION A-A

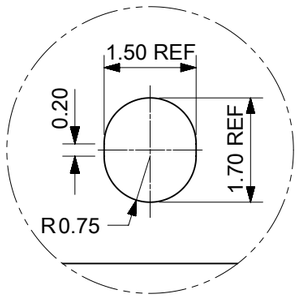




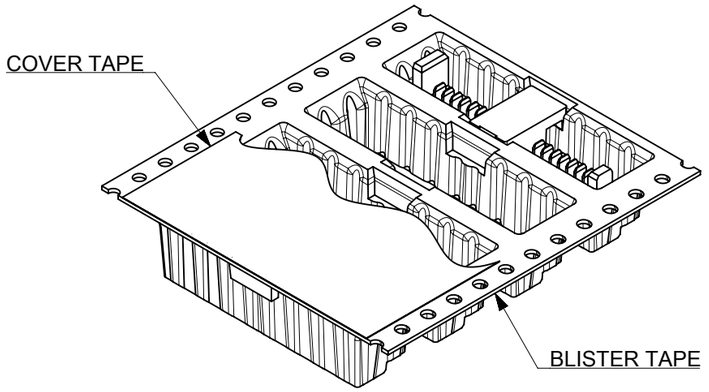
DIRECTION OF UNREELING →



SECTION B-B

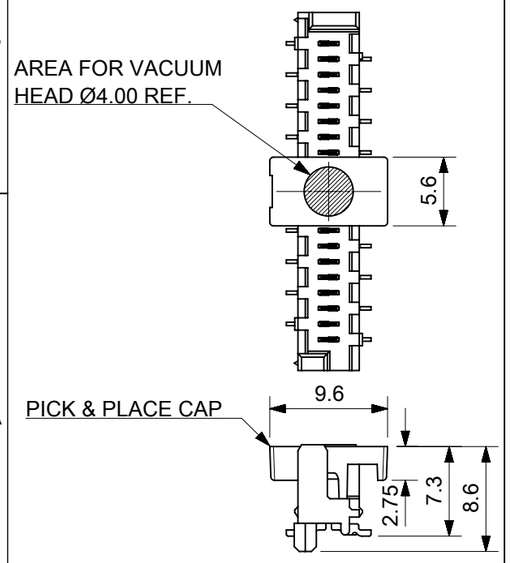


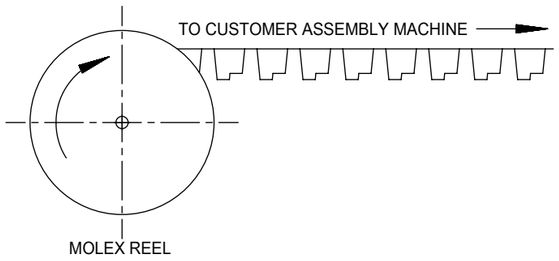
DETAIL C
SCALE 10:1



STANDARD SMT PICOFLEX
COMPONENT & CAP DETAIL
PART NUMBERS 90814-*2**/-*5**

SEE DRAWING NO. SDA-90814
FOR COMPONENT DETAIL





NOTES:

1. MATERIAL:
   CARRIER TAPE: VOLUME NON-CONDUCTIVE ANTISTATIC COATED POLYSTYRENE, 0.4 mm REF. THICK, CLEAR.
   COVER TAPE: COLD SEAL POLYESTER, 0.06 mm REF. THICK, TRANSPARENT.
2. PITCH TOLERANCE OVER ANY 10 PITCHES ±0.2 mm.
3. ALL CAVITY WALLS HAVE DRAFT ANGLE UNLESS STATED OTHERWISE.
4. ALL INTERNAL RADII R0.3 MAX.
5. PEEL FORCE OF THE COVER TAPE IS 0.1 N TO 1.3 N AT MAXIMUM PEEL SPEED OF 300 mm/MIN, ±10%.
6. REFERENCE TO IEC 60286-3.

DOCUMENT STATUS	P1	RELEASE DATE	2018/04/18 13:52:11

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	1.5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 2.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	± 0.2
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REVISED

EC NO: 169568
DRWN: BPMURPHY 2017/12/05
CHK'D: DSHEA 2018/04/13
APPR: DBYRNES 2018/04/18

INITIAL REVISION:
DRWN: BPMURPHY 2017/09/25
APPR: DBYRNES 2017/11/17

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 90814

molex

PICOFLEX SMT HEADER BLISTER TAPE

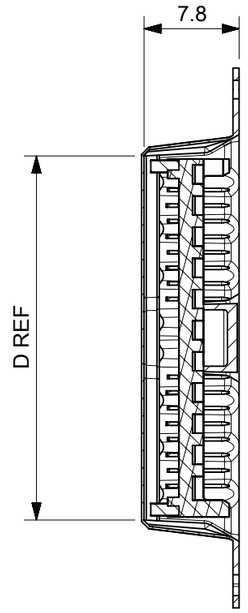
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
908149002	PSD	000	B

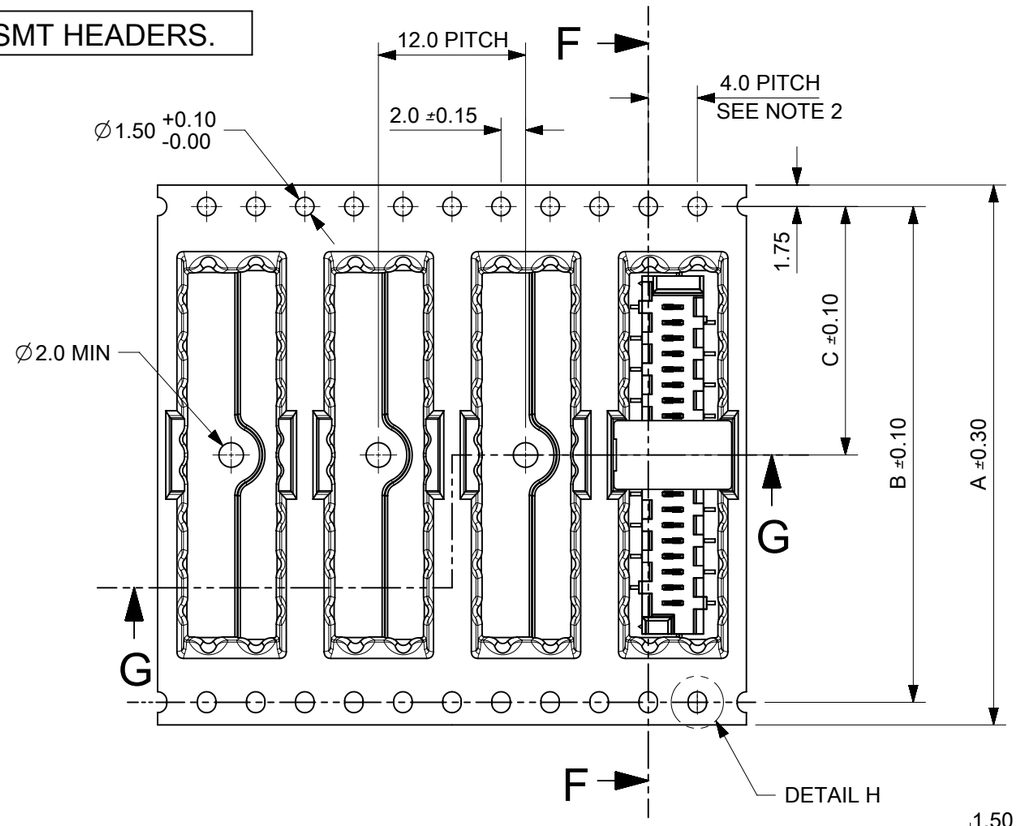
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE	GENERAL MARKET	1 OF 2

CARRIER TAPE FOR LOW PROFILE SMT HEADERS.

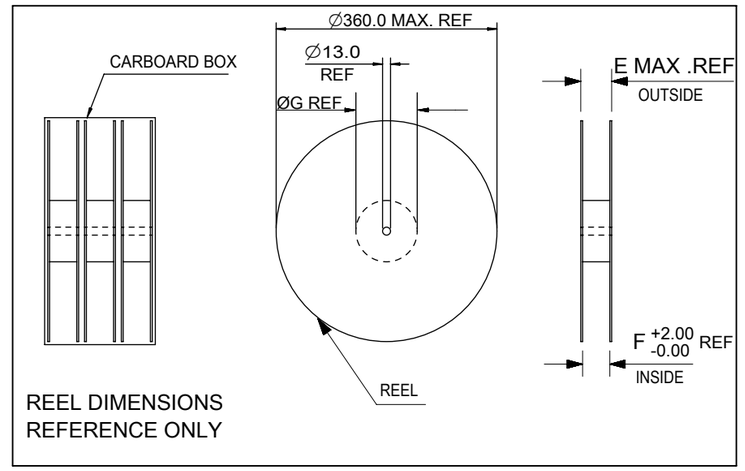
PART NUMBER	NO. OF CKTS	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	PIECES PER BOX	REELS PER BOX	PIECES PER REEL
90814-*720/-*920	20	44.0	40.4	20.2	29.5	50.4	44.4	100.0	1800	3	600
90814-*718/-*918	18										
90814-*716/-*916	16										
90814-*714/-*914	14										
90814-*712/-*912	12										
90814-*710/-*910	10										
90814-*708/-*908	8										
90814-*706/-*906	6										
90814-*704/-*904	4										

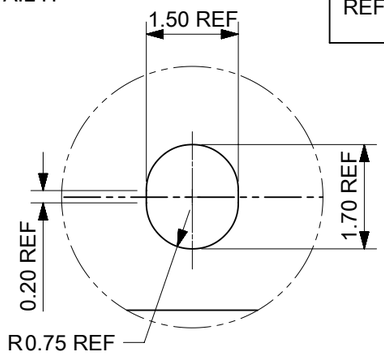


SECTION F-F

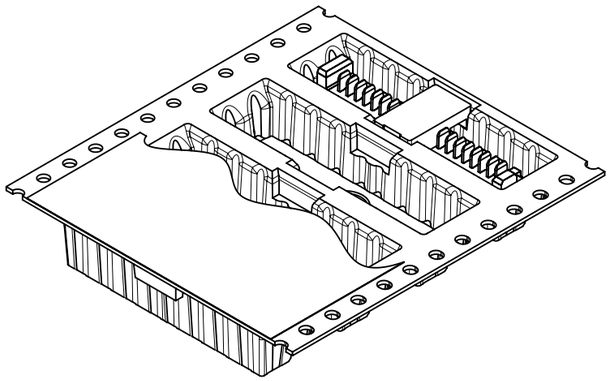


SECTION G-G



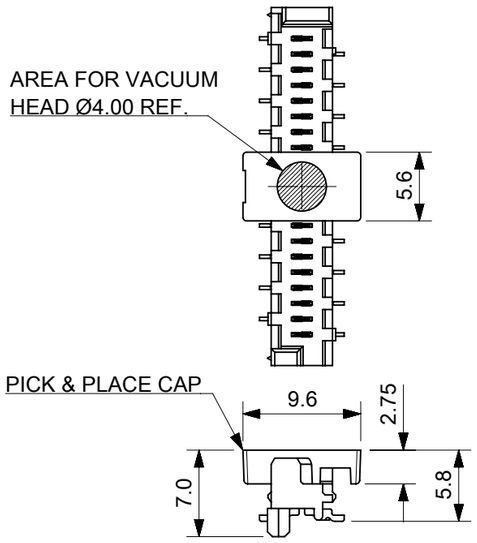


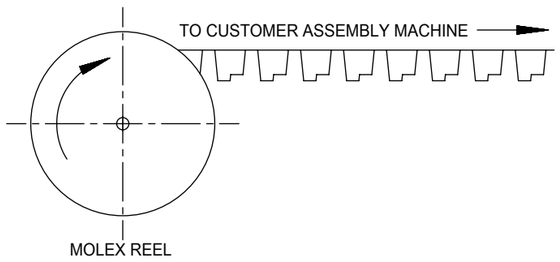
DETAIL H
SCALE 10:1



LOW-PROFILE SMT PICOFLEX
COMPONENT & CAP DETAIL
PART NUMBERS 90814-*7**/-*9**

SEE DRAWING NO. SDA-90814
FOR COMPONENT DETAIL





NOTES:
1. MATERIAL:
   CARRIER TAPE: VOLUME NON-CONDUCTIVE ANTISTATIC COATED POLYSTYRENE, 0.4 mm REF. THICK, CLEAR.
   COVER TAPE: COLD SEAL POLYESTER, 0.06 mm REF. THICK, TRANSPARENT.
2. PITCH TOLERANCE OVER ANY 10 PITCHES ±0.2 mm.
3. ALL CAVITY WALLS HAVE DRAFT ANGLE UNLESS STATED OTHERWISE.
4. ALL INTERNAL RADII R0.3 MAX.
5. PEEL FORCE OF THE COVER TAPE IS 0.1 N TO 1.3 N AT MAXIMUM PEEL SPEED OF 300 mm/MIN, ±10%.
6. REFERENCE TO IEC 60286-3.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	1.5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	2.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.1
1 PLACE	±	0.2
0 PLACES	±	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REVISED

EC NO: 169568
DRWN: BPMURPHY 2017/12/05
CHK'D: DSHEA 2018/04/13
APPR: DBYRNES 2018/04/18

INITIAL REVISION:
DRWN: BPMURPHY 2017/09/25
APPR: DBYRNES 2017/11/17

molex

PICOFLEX SMT HEADER BLISTER TAPE

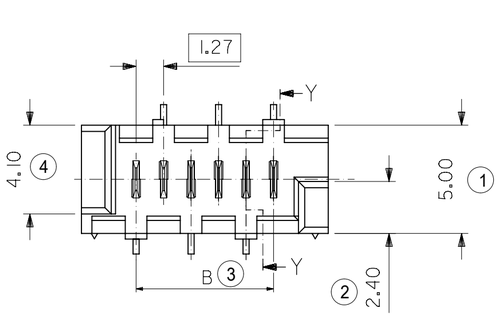
PRODUCT CUSTOMER DRAWING

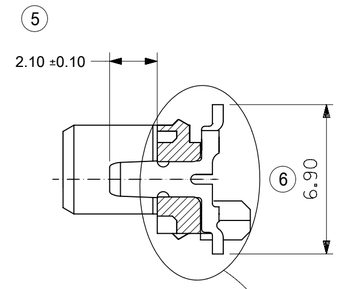
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
908149002	PSD	000	B

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	90814	SEE TABLE	GENERAL MARKET	2 OF 2

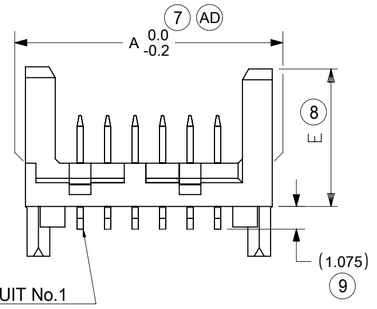
DOCUMENT STATUS	P1	RELEASE DATE	2018/04/18 13:52:11

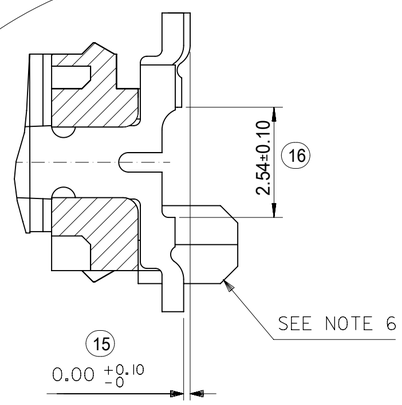
FORMAT: master-tb-prod-A3
REVISION: H
DATE: 2018/01/18

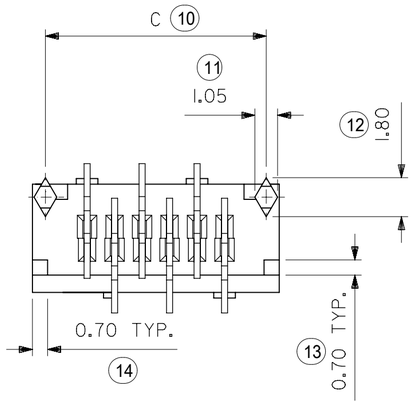




SECTION Y-Y







SEE NOTE 4

(SCALE 10:1)

90814 - * * **

CIRCUIT SIZE

	PCB PEGS	TUBE PACKED	TAPE & REEL PACKED	POLARIZING PEG HEIGHT DIMN. E	
0	YES	YES	NO	6.40	STANDARD
2	YES	NO	YES	6.40	PROFILE
3	NO	YES	NO	6.40	REFLOW
5	NO	NO	YES	6.40	NOTE 9
6	NO	YES	NO	4.10	LOW
7	NO	NO	YES	4.10	PROFILE
8	YES	YES	NO	4.10	REFLOW
9	YES	NO	YES	4.10	NOTE 9

0= 3-5 MICROMETRE TIN VERSION

3= 0.76µm GOLD PLATING

90814-**26	26	36.80	31.75	35.60	14	YES
90814-**24	24	34.26	29.21	33.06	15	YES
90814-**22	22	31.72	26.67	30.52	16	YES
90814-**20	20	29.18	24.13	27.98	18	YES
90814-**18	18	26.64	21.59	25.44	20	YES
90814-**16	16	24.10	19.05	22.90	22	YES
90814-**14	14	21.56	16.51	20.36	25	YES
90814-**12	12	19.02	13.97	17.82	28	YES
90814-**10	10	16.48	11.43	15.28	32	YES
90814-**08	8	13.94	8.89	12.74	38	YES
90814-**06	6	11.40	6.35	10.20	46	YES
90814-**04	4	8.86	3.81	7.66	60	YES
PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C	QUANTITY OF PARTS PER TUBE (-*0**/-*3**/-*6** & -*8** VERSIONS)	TOOLED

NOTES:

1) MATERIAL: HOUSING: NYLON (PA) GLASS FILLED. UL94 V-0, NATURAL (BEIGE)
TERMINAL - CARTRIDGE BRASS 0.28 REF THICK
2) PLATING:
TIN: TIN (Sn) 3-5 MICROMETRE OVER 1.27 MICROMETRE MIN NICKEL(Ni).
GOLD : UNDERPLATED 1.27µm MIN NICKEL
3-5µm TIN SELECTIVE
0.76µm MIN. SELECTIVE GOLD
3) MATES WITH MOLEX 90327 PART SERIES.
4) ALL SMT TAILS TO LIE WITHIN A COPLANARITY BAND OF
0.0 - 0.10 REF. FROM EACH OTHER.
5) FOR TAPE AND REEL PACKAGING SEE 908149001 PSD AND 908149002 PSD.
FOR TUBE PACKAGING SEE PK-90814-001
6) PCB PEGS ARE OPTIONAL.
7) PCB LAYOUT SHOWN ON SHEET 2.
8) PRODUCT SPECIFICATION: PS-99020-0011
9) FOR RECOMMENDED REFLOW PROFILES, REFER TO PS-99020-0011 APPENDIX B

INSPECTION NUMBERS USED ON SHEET 1: 1-50
LAST INSPECTION NUMBER: 16

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	mm
SCALE	5:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 0.5 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.1
1 PLACE	±
0 PLACES	±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:

EC NO: 738955
DRWN: GOWTHP 2023/02/02
CHK'D: GOWTHP 2023/02/16
APPR: ISHWARG 2023/02/20

INITIAL REVISION:
DRWN: DMCNAMAR 2001/08/16
APPR: EFOLEN 2010/11/04

THIRD ANGLE PROJECTION | DRAWING: A2-SIZE | SERIES: 90814

molex

PICOFLEX
SMT HEADER

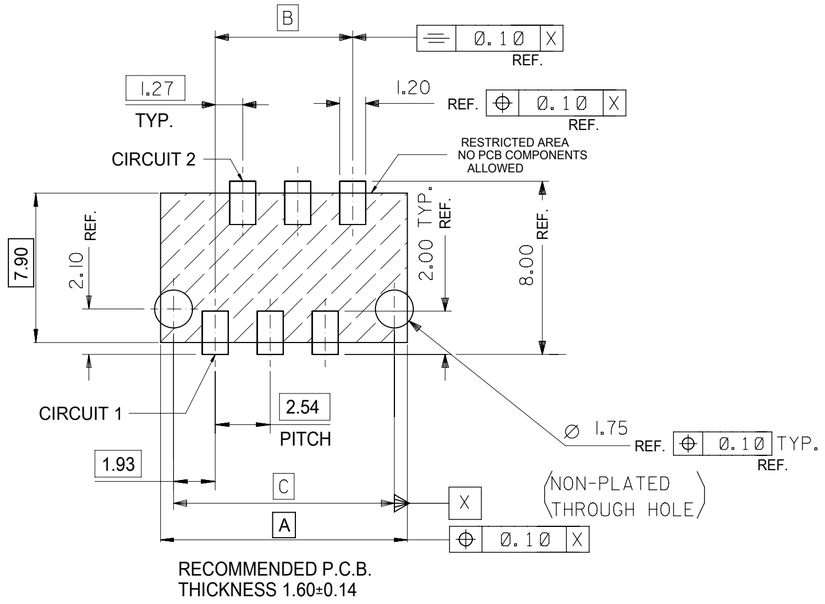
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SDA-90814	PSD	001	AE1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	1 OF 2

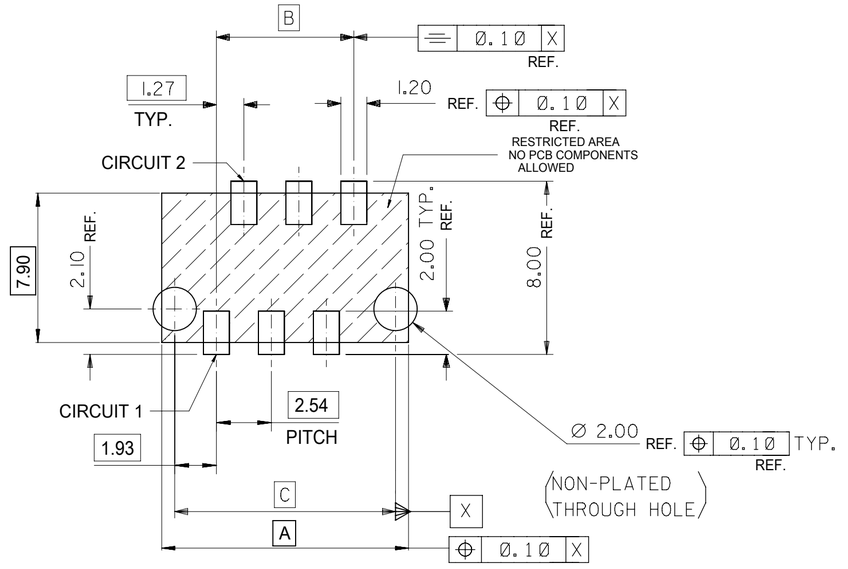
DOCUMENT STATUS	P1	RELEASE DATE	2023/02/20 05:04:28

FORMAT: master-tb-prod-A2
REVISION: H
DATE: 20160118



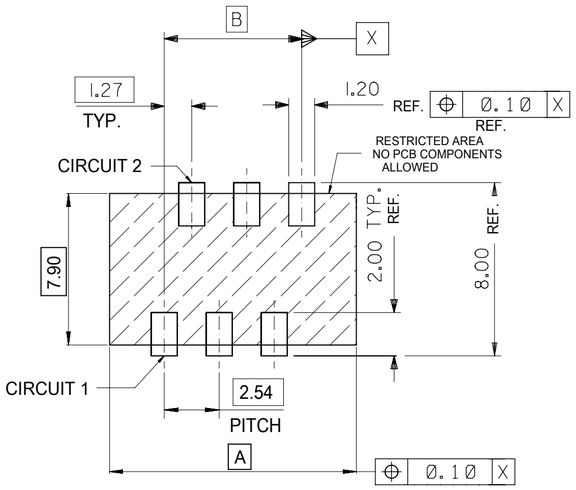
RECOMMENDED P.C.B.
THICKNESS 1.60±0.14

PCB LAYOUT FOR TRANSITION FIT WITH PCB PEGS
*HEADER VERSIONS 90814-*0**/-*2**/-*8**/-*9**,*
VIEWED FROM COMPONENT SIDE



RECOMMENDED P.C.B.
THICKNESS 1.60±0.14

PCB LAYOUT FOR CLEARANCE FIT WITH PCB PEGS
*HEADER VERSIONS 90814-*0**/-*2**/-*8**/-*9**,*
VIEWED FROM COMPONENT SIDE



PCB LAYOUT FOR HEADERS WITHOUT PCB PEGS
*HEADER VERSIONS 90814-*3**/-*5**/-*6**/-*7**,*
VIEWED FROM COMPONENT SIDE

90814-**26	26	36.80	31.75	35.60
90814-**24	24	34.26	29.21	33.06
90814-**22	22	31.72	26.67	30.52
90814-**20	20	29.18	24.13	27.98
90814-**18	18	26.64	21.59	25.44
90814-**16	16	24.10	19.05	22.90
90814-**14	14	21.56	16.51	20.36
90814-**12	12	19.02	13.97	17.82
90814-**10	10	16.48	11.43	15.28
90814-**08	8	13.94	8.89	12.74
90814-**06	6	11.40	6.35	10.20
90814-**04	4	8.86	3.81	7.66
PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	mm
SCALE	5:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ±	0.5°
4 PLACES ±	
3 PLACES ±	
2 PLACES ±	0.1
1 PLACE ±	
0 PLACES ±	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:

EC NO: 738955
DRWN: GOWTHP 2023/02/02
CHK'D: GOWTHP 2023/02/16
APPR: ISHWARG 2023/02/20

INITIAL REVISION:
DRWN: DMCNAMAR 2001/08/16
APPR: EFOLEN 2010/11/04

THIRD ANGLE PROJECTION | DRAWING: A2-SIZE | SERIES: 90814

molex

PICOFLEX
SMT HEADER

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SDA-90814	PSD	001	AE1

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

DOCUMENT STATUS	P1	RELEASE DATE	2023/02/20 05:04:28

FORMAT: master-tb-prod-A2
REVISION: H
DATE: 2018/01/18