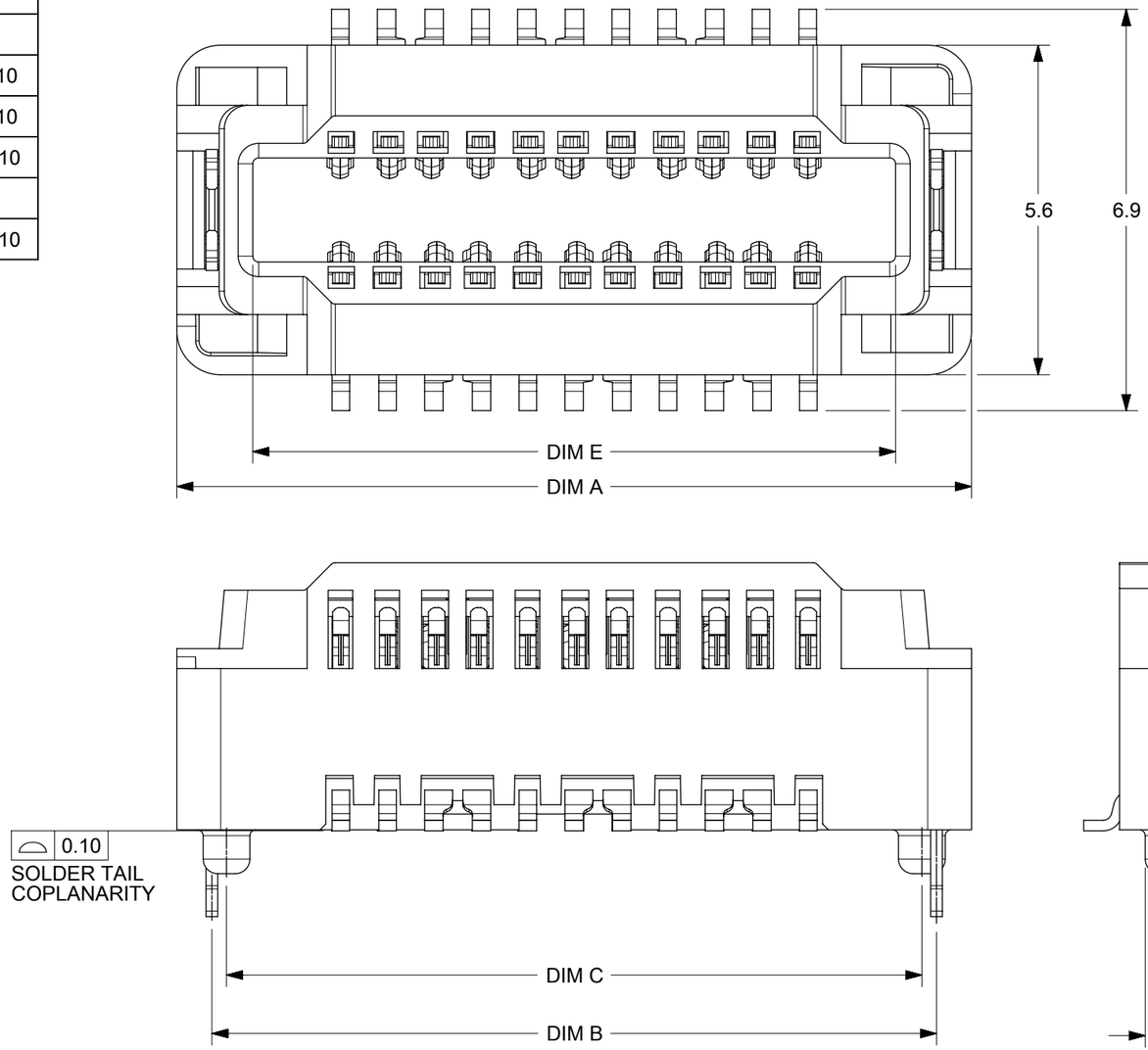
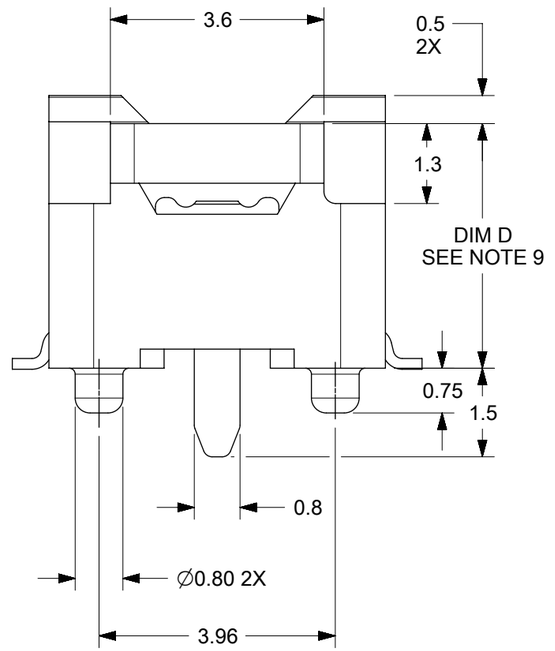
PART NUMBER	CKT SIZE	DIFF PAIRS	SPARE CKTS	DIM A	DIM B	DIM C	DIM E	DIM D
	22	6	2	13.6	12.40	11.90	11.0	
171450-5102								4.10
171450-5105	60	16	8	28.8	27.60	27.10	26.2	3.10
171450-5106								4.10
	82	22	10	41.6	40.40	39.90	11.0/ 26.2	
171450-5114								4.10





NOTES:
1. MATERIALS: HOUSING: LCP, UL94V-0, BLACK
   CONTACTS: HIGH PERFORMANCE COPPER ALLOY
2. FINISH: 0.76 µm MIN SELECT GOLD IN CONTACT AREA,
   SELECT MATTE TIN IN TAIL AREA, OVERALL NICKEL.
3. PRODUCT SPECIFICATION: PS-171446-0001
4. PACKAGING SPECIFICATION: PK-70873-6002
5. MATES WITH SPEEDSTACK PLUGS: 171446 & 171810
6. APPLICATION SPECIFICATION: AS-171450-9999
7. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
8. PART STATUS: CONTACT MOLEX
9. DIM D ON THIS DRAWING PLUS DIM D ON DRAWING # SD-171446-1000 EQUALS THE SYSTEM MATED STACK HEIGHT
10. PARTS SHIPPED WITH PICK AND PLACE COVERS.

DIMENSION UNITS	mm
SCALE	10:1
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 -5105

EC NO: 623611
DRWN: JBINGHAM 2019/09/03
CHK'D: KLANG 2019/09/06
APPR: KLANG 2019/09/06

INITIAL REVISION:
DRWN: JBINGHAM 2016/08/25
APPR: JBINGHAM 2016/09/07

THIRD ANGLE PROJECTION | DRAWING: B-SIZE | SERIES: 171450

molex

SPEEDSTACK
RECEPTACLE ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171450-5000	PSD	001	B

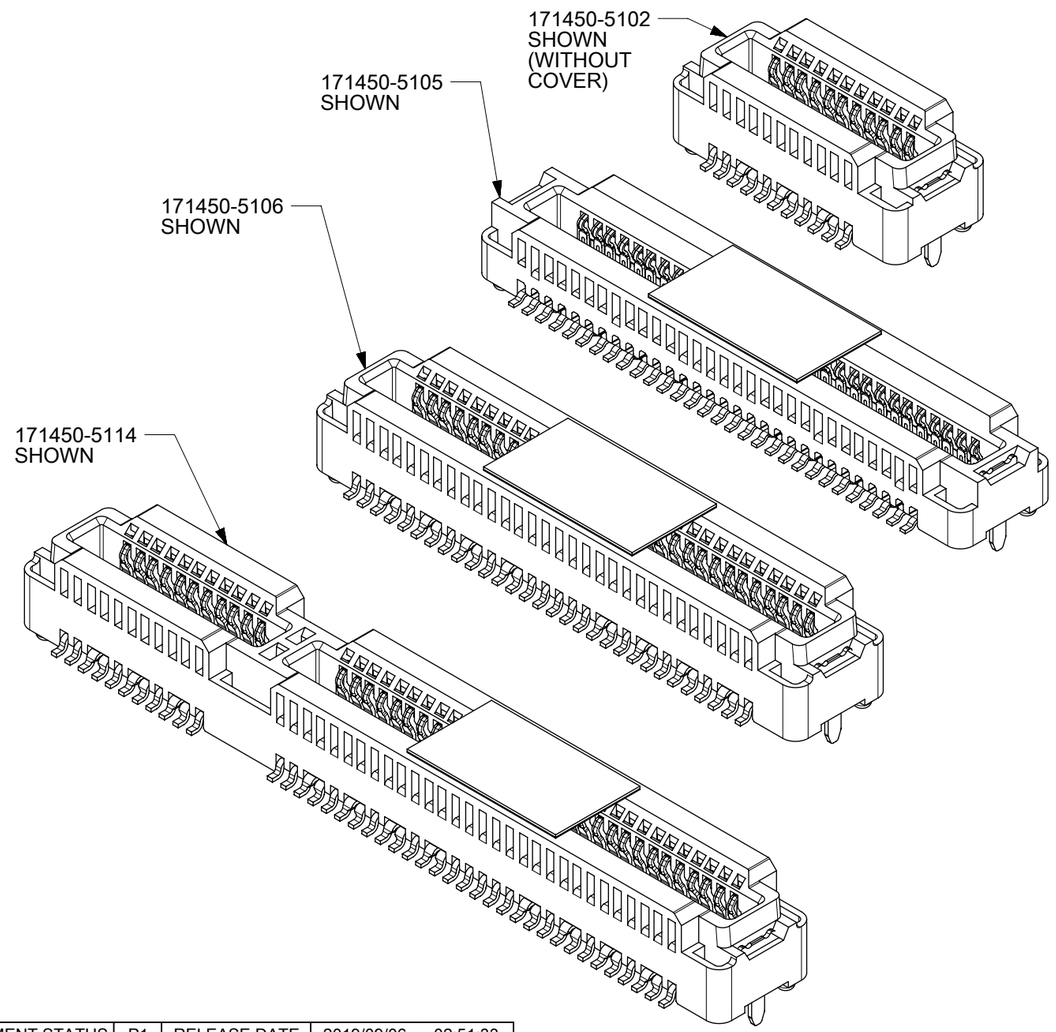
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	1 OF 8

DOCUMENT STATUS	P1	RELEASE DATE	2019/09/06 02:51:33

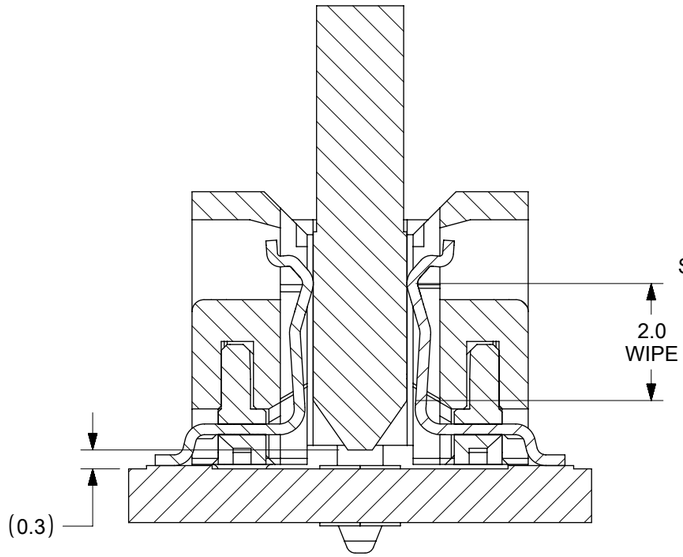
FORMAT: master-lb-prod-B
REVISION: H
DATE: 2018/01/18

MEZZANINE (PLUG & RECEPTACLE) STACKING CHART

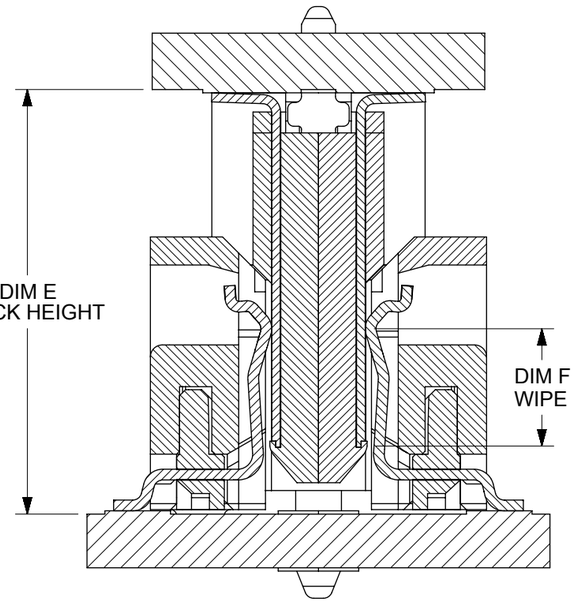
RECEPTACLE OPTIONS			PLUG OPTIONS (1mm WIPE)					PLUG OPTIONS (2mm WIPE)			
			HEIGHT	1mm	2mm	3mm	4mm	1mm	2mm	3mm	4mm
			22 CKT	171446-1101	171446-1102	171446-1103	171446-1104	171446-1105	171446-1106	171446-1107	171446-1108
			60 CKT	171446-1109	171446-1110	171446-1111	171446-1112	171446-1113	171446-1114	171446-1115	171446-1116
	60 CKT	171450-5105	3mm	4/1	5/1	6/1	7/1	N/A			
	22 CKT	171450-5102	4mm	5/1	6/1	7/1	8/1	5/2	6/2	7/2	8/2
	60 CKT	171450-5106									
	82 CKT	171450-5114									
	CIRCUITS	MOLEX P/N	HEIGHT	STACK HEIGHT (DIM E)/WIPE (DIM F)							



EDGE CARD APPLICATION



MEZZANINE APPLICATION
(PLUG & RECEPTACLE)

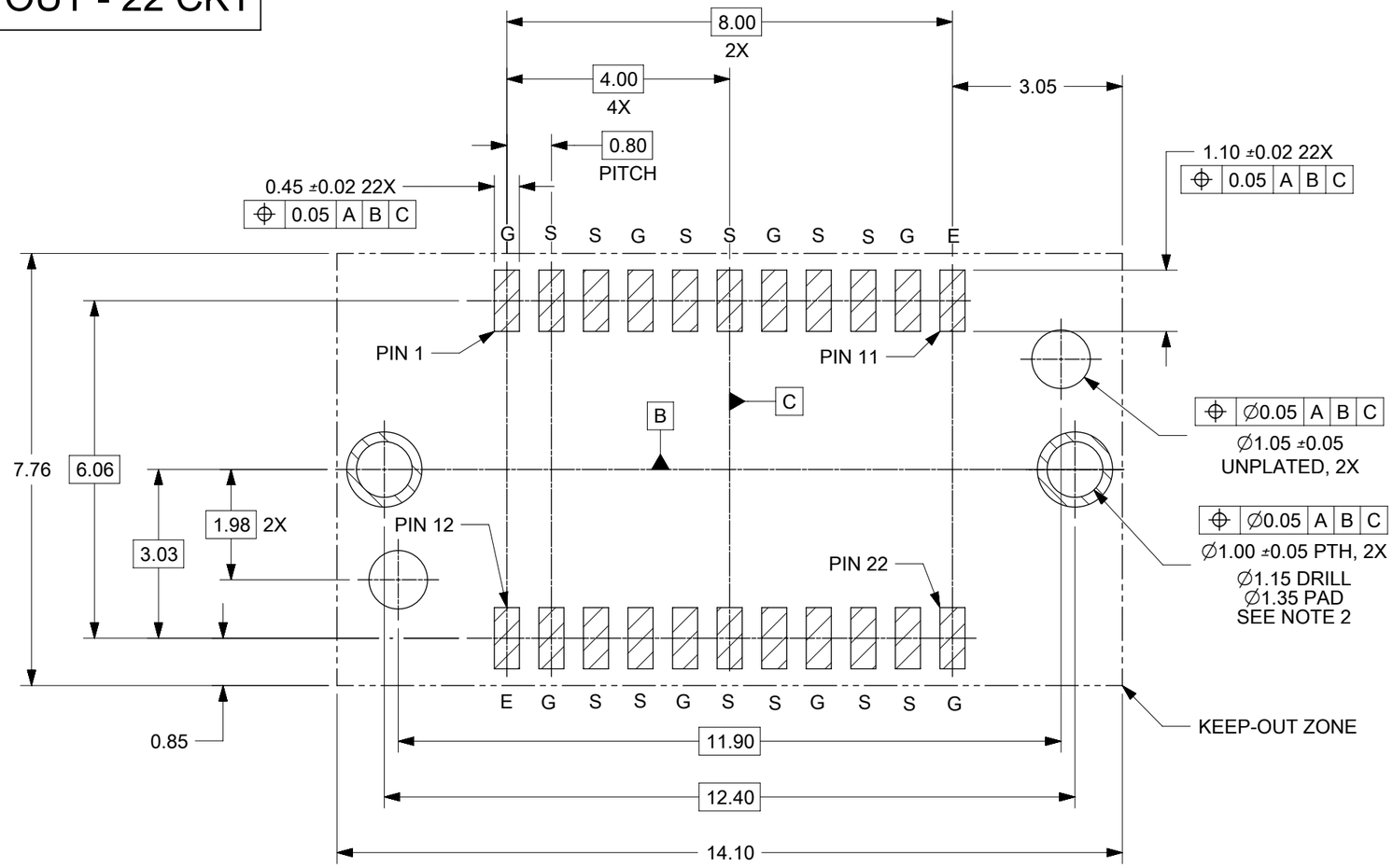


DIMENSION UNITS: mm	SCALE: 10:1	CURRENT REV DESC: ADD -5105	molex
GENERAL TOLERANCES (UNLESS SPECIFIED)			SPEEDSTACK RECEPTACLE ASSEMBLY SALES DRAWING
ANGULAR TOL ± 0.5 °		EC NO: 623611	
4 PLACES ±		DRWN: JBINGHAM 2019/09/03	PRODUCT CUSTOMER DRAWING
3 PLACES ±		CHK'D: KLANG 2019/09/06	
2 PLACES ± 0.13		APPR: KLANG 2019/09/06	DOCUMENT NUMBER: SD-171450-5000 / DOC TYPE: PSD / DOC PART: 001 / REVISION: B
1 PLACE ± 0.25		INITIAL REVISION:	
0 PLACES ±		DRWN: JBINGHAM 2016/08/25	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: JBINGHAM 2016/09/07	THIRD ANGLE PROJECTION / DRAWING: B-SIZE / SERIES: 171450 / MATERIAL NUMBER: SEE CHART / CUSTOMER: GENERAL MARKET / SHEET NUMBER: 2 OF 8

DOCUMENT STATUS	P1	RELEASE DATE	2019/09/06 02:51:33

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

PCB LAYOUT - 22 CKT



PINOUT LEGEND
E = EXTRA
G = GROUND
S = SIGNAL

PCB LAYOUT (COMPONENT SIDE)

SOLDER PASTE THICKNESS: 0.15 MIN

DATUM A IS THE BOTTOM SURFACE OF THE PCB

NOTES:
1. PIN NUMBERING IS FOR REFERENCE ONLY. OTHER PIN NUMBERS WILL NOT AFFECT THE OPERATION OF THE CONNECTOR.
2. RETENTION NAIL MUST BE SOLDERED ONTO THE PCB FOR PROPER CONNECTOR FUNCTION.

DIMENSION UNITS	SCALE
mm	10:1

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 -5105

EC NO: 623611

DRWN:	JBINGHAM	2019/09/03
CHK'D:	KLANG	2019/09/06
APPR:	KLANG	2019/09/06

INITIAL REVISION:

DRWN:	JBINGHAM	2016/08/25
APPR:	JBINGHAM	2016/09/07

molex

SPEEDSTACK
RECEPTACLE ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

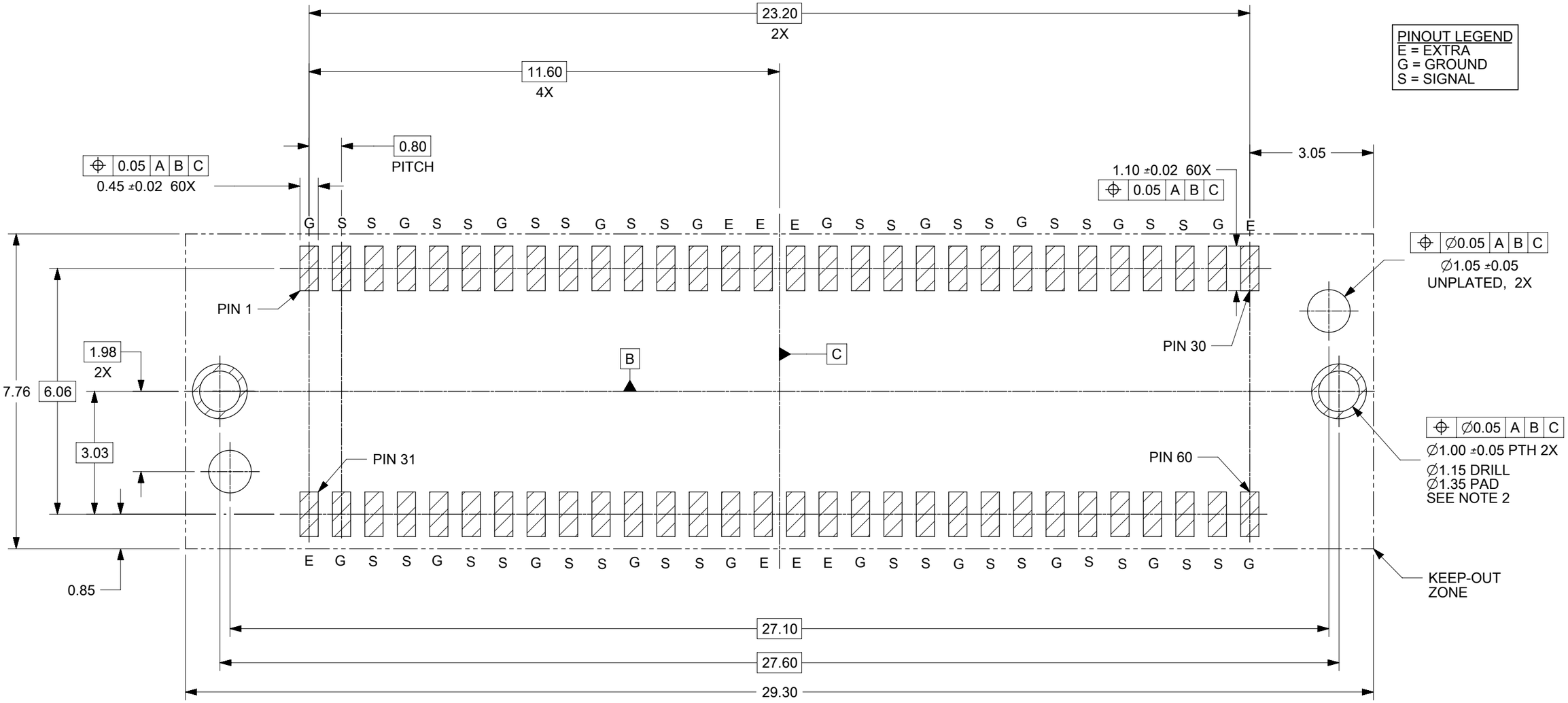
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171450-5000	PSD	001	B

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	B-SIZE	171450	SEE CHART	GENERAL MARKET	3 OF 8

DOCUMENT STATUS	P1	RELEASE DATE	2019/09/06 02:51:33

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

PCB LAYOUT - 60 CKT



PINOUT LEGEND
E = EXTRA
G = GROUND
S = SIGNAL

PCB LAYOUT (COMPONENT SIDE)

SOLDER PASTE THICKNESS: 0.15 MIN

DATUM A IS THE BOTTOM SURFACE OF THE PCB

NOTES:
1. PIN NUMBERING IS FOR REFERENCE ONLY. OTHER PIN NUMBERS WILL NOT AFFECT THE OPERATION OF THE CONNECTOR.
2. RETENTION NAIL MUST BE SOLDERED ONTO THE PCB FOR PROPER CONNECTOR FUNCTION.

DIMENSION UNITS	SCALE
mm	10:1

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 -5105

EC NO: 623611

DRWN:	JBINGHAM	2019/09/03
CHK'D:	KLANG	2019/09/06
APPR:	KLANG	2019/09/06

INITIAL REVISION:

DRWN:	JBINGHAM	2016/08/25
APPR:	JBINGHAM	2016/09/07

THIRD ANGLE PROJECTION

DRAWING	SERIES
B-SIZE	171450

molex

SPEEDSTACK
RECEPTACLE ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

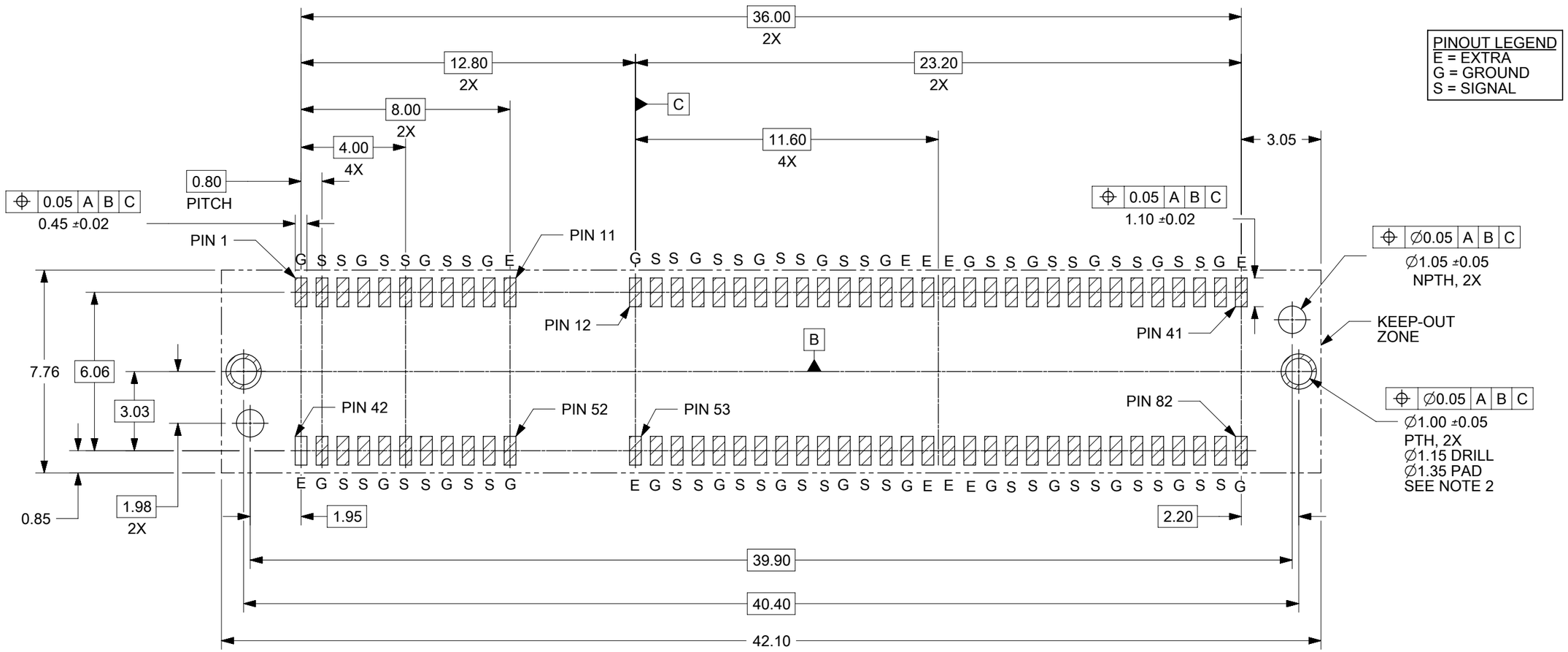
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171450-5000	PSD	001	B

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	4 OF 8

DOCUMENT STATUS	P1	RELEASE DATE	2019/09/06 02:51:33

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

PCB LAYOUT - 82 CKT



PCB LAYOUT (COMPONENT SIDE)

SOLDER PASTE THICKNESS: 0.15 MIN

DATUM A IS THE BOTTOM SURFACE OF THE PCB

NOTES:
1. PIN NUMBERING IS FOR REFERENCE ONLY. OTHER PIN NUMBERS WILL NOT AFFECT THE OPERATION OF THE CONNECTOR.
2. RETENTION NAIL MUST BE SOLDERED ONTO THE PCB FOR PROPER CONNECTOR FUNCTION.

DOCUMENT STATUS	P1	RELEASE DATE	2019/09/06 02:51:33

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

DIMENSION UNITS	SCALE
mm	6:1

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 -5105

EC NO: 623611
DRWN: JBINGHAM 2019/09/03
CHK'D: KLANG 2019/09/06
APPR: KLANG 2019/09/06

INITIAL REVISION:
DRWN: JBINGHAM 2016/08/25
APPR: JBINGHAM 2016/09/07

molex

SPEEDSTACK
RECEPTACLE ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

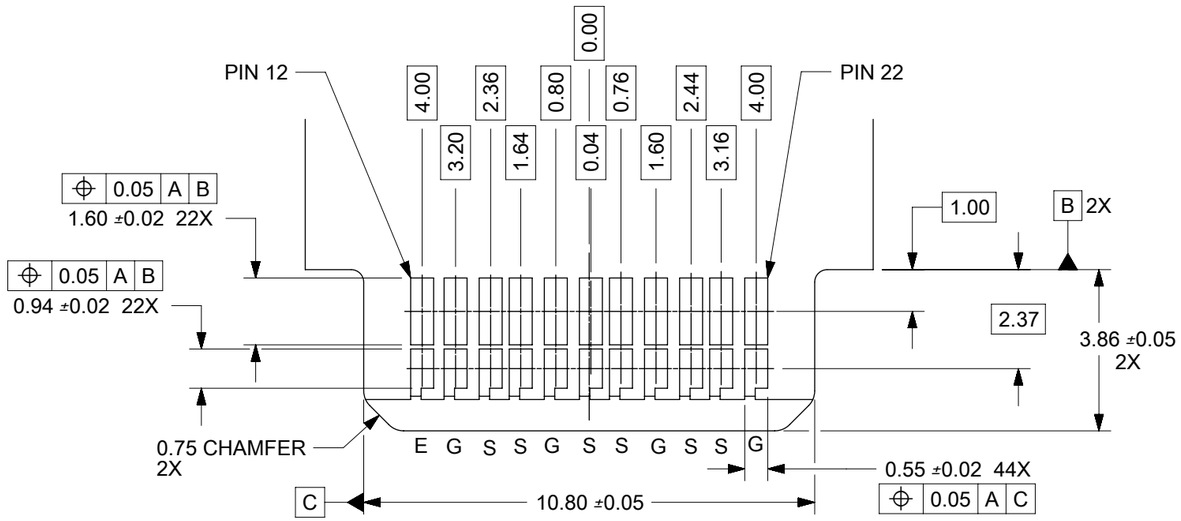
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171450-5000	PSD	001	B

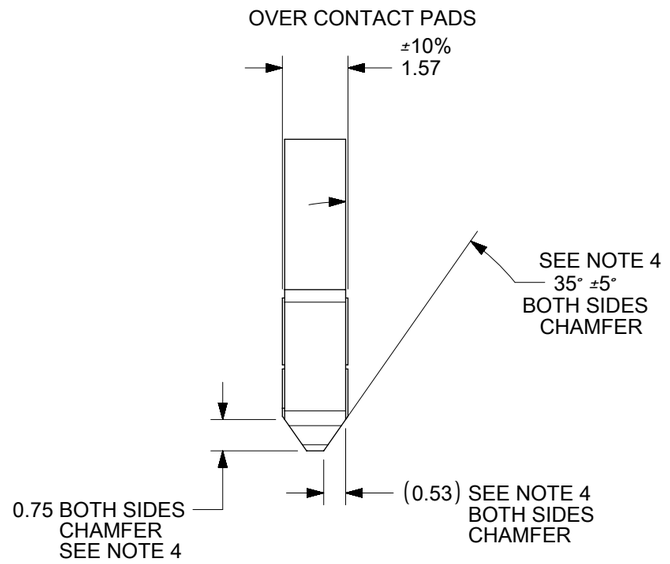
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	B-SIZE	171450	SEE CHART	GENERAL MARKET	5 OF 8

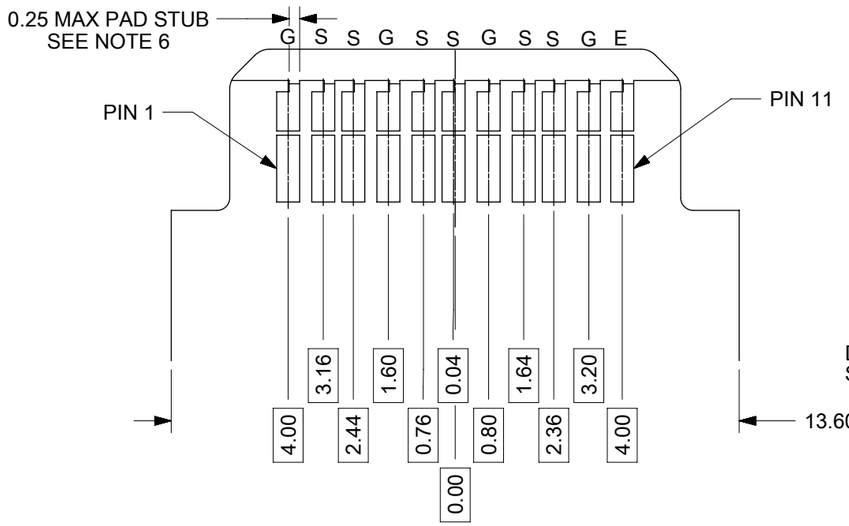
EDGECARD LAYOUT - 22 CKT

FRONT SIDE

DATUM [A] IS THE OPPOSITE SIDE OF THE PCB







BACK SIDE

DATUM [A] IS THE OPPOSITE SIDE OF THE PCB

PINOUT LEGEND
E = EXTRA
G = GROUND
S = SIGNAL

NOTES:
1. PIN NUMBERING IS FOR REFERENCE ONLY. OTHER PIN NUMBERS WILL NOT AFFECT THE OPERATION OF THE CONNECTOR.
2. EDGE CARD SHOULDERS STOP ON RECEPTACLE SHOULDERS. EDGE CARD BOTTOM DOES NOT CONTACT RECEPTACLE PCB.
3. PAD SET BACK FROM CHAMFER ENOUGH TO ACCOMMODATE LARGEST CHAMFER WITHOUT DAMAGE TO PAD EDGE.
4. CHAMFER DEPTH SHOULD BE AS LARGE AS PRACTICAL TO ENSURE CORRECT MATING TO THE RECEPTACLE.
5. ALL CHAMFERED EDGES SHOULD BE ROUNDED WHERE POSSIBLE.
6. INTERNAL PLATING BRIDGES ARE PREFERRED TO ELIMINATE PAD STUB.

DIMENSION UNITS	mm
SCALE	7:1
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 -5105

EC NO:	623611	
DRWN:	JBINGHAM	2019/09/03
CHK'D:	KLANG	2019/09/06
APPR:	KLANG	2019/09/06

INITIAL REVISION:

DRWN:	JBINGHAM	2016/08/25
APPR:	JBINGHAM	2016/09/07

THIRD ANGLE PROJECTION

DRAWING	SERIES
B-SIZE	171450

molex

SPEEDSTACK
RECEPTACLE ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171450-5000	PSD	001	B

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	6 OF 8

DOCUMENT STATUS	P1	RELEASE DATE	2019/09/06 02:51:33

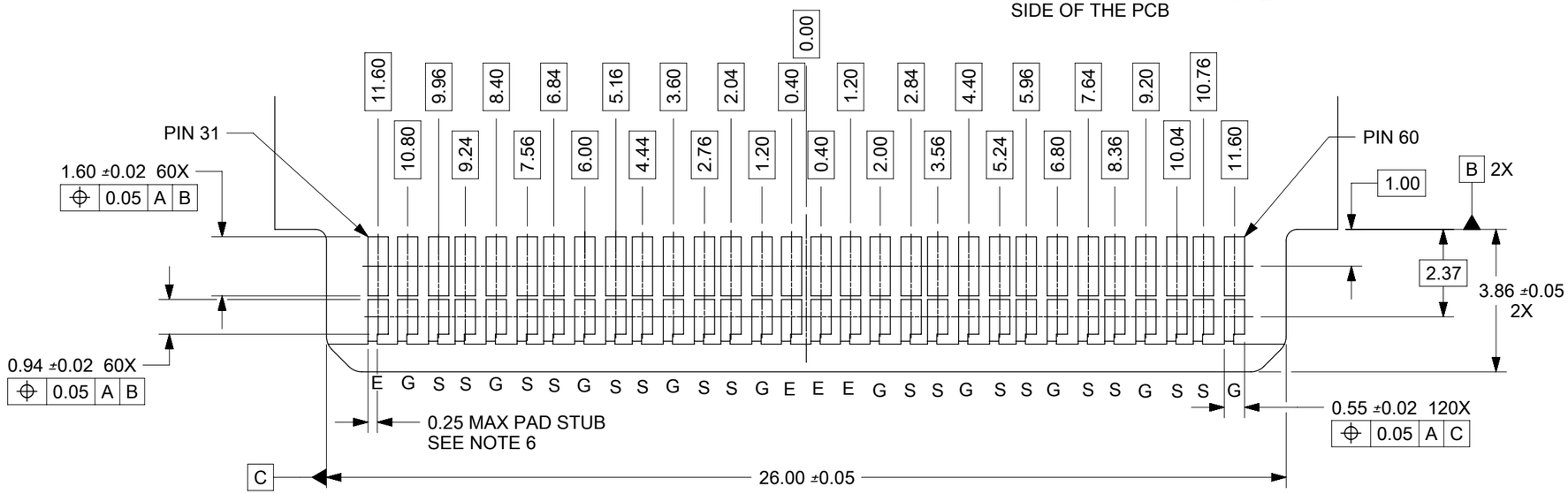
FORMAT: master-tb-prod-B
REVISION: H
DATE: 2018/01/18

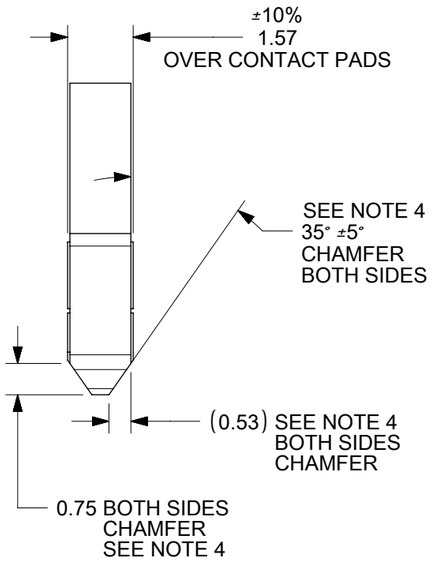
EDGECARD LAYOUT - 60 CKT

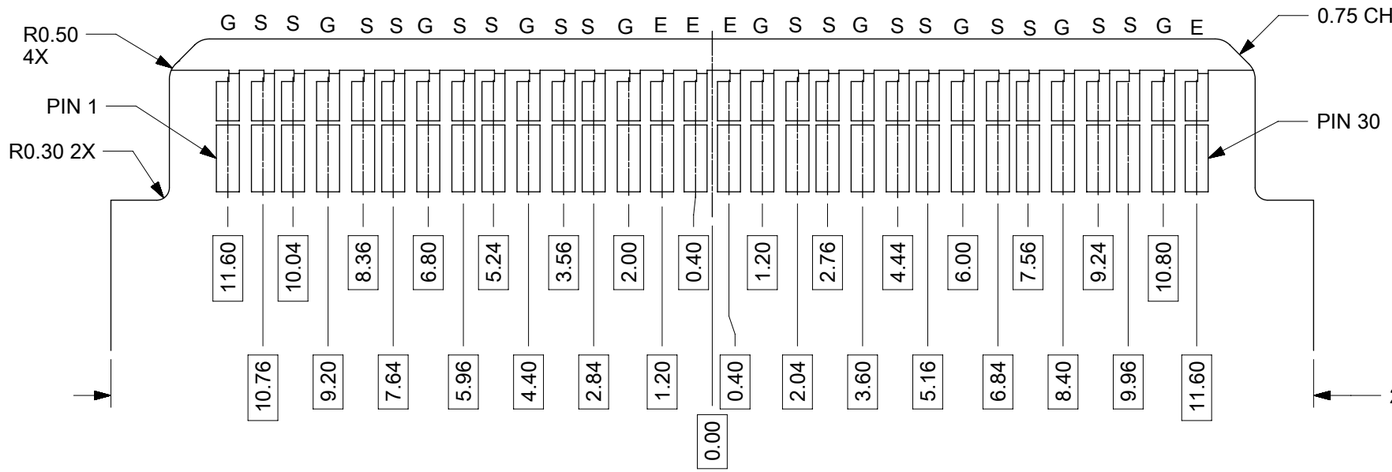
FRONT SIDE

DATUM [A] IS THE OPPOSITE SIDE OF THE PCB

PINOUT LEGEND
E = EXTRA
G = GROUND
S = SIGNAL







BACK SIDE

DATUM [A] IS THE OPPOSITE SIDE OF THE PCB

NOTES:
1. PIN NUMBERING IS FOR REFERENCE ONLY. OTHER PIN NUMBERS WILL NOT AFFECT THE OPERATION OF THE CONNECTOR.
2. EDGE CARD SHOULDERS STOP ON RECEPTACLE SHOULDERS. EDGE CARD BOTTOM DOES NOT CONTACT RECEPTACLE PCB.
3. PAD SET BACK FROM CHAMFER ENOUGH TO ACCOMMODATE LARGEST CHAMFER WITHOUT DAMAGE TO PAD EDGE.
4. CHAMFER DEPTH SHOULD BE AS LARGE AS PRACTICAL TO ENSURE CORRECT MATING TO THE RECEPTACLE.
5. ALL CHAMFERED EDGES SHOULD BE ROUNDED WHERE POSSIBLE.
6. INTERNAL PLATING BRIDGES ARE PREFERRED TO ELIMINATE PAD STUB.

DIMENSION UNITS	mm
SCALE	7:1
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 -5105

EC NO: 623611
DRWN: JBINGHAM 2019/09/03
CHK'D: KLANG 2019/09/06
APPR: KLANG 2019/09/06

INITIAL REVISION:
DRWN: JBINGHAM 2016/08/25
APPR: JBINGHAM 2016/09/07

THIRD ANGLE PROJECTION | DRAWING: B-SIZE | SERIES: 171450

molex

SPEEDSTACK
RECEPTACLE ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171450-5000	PSD	001	B

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE CHART	GENERAL MARKET	7 OF 8

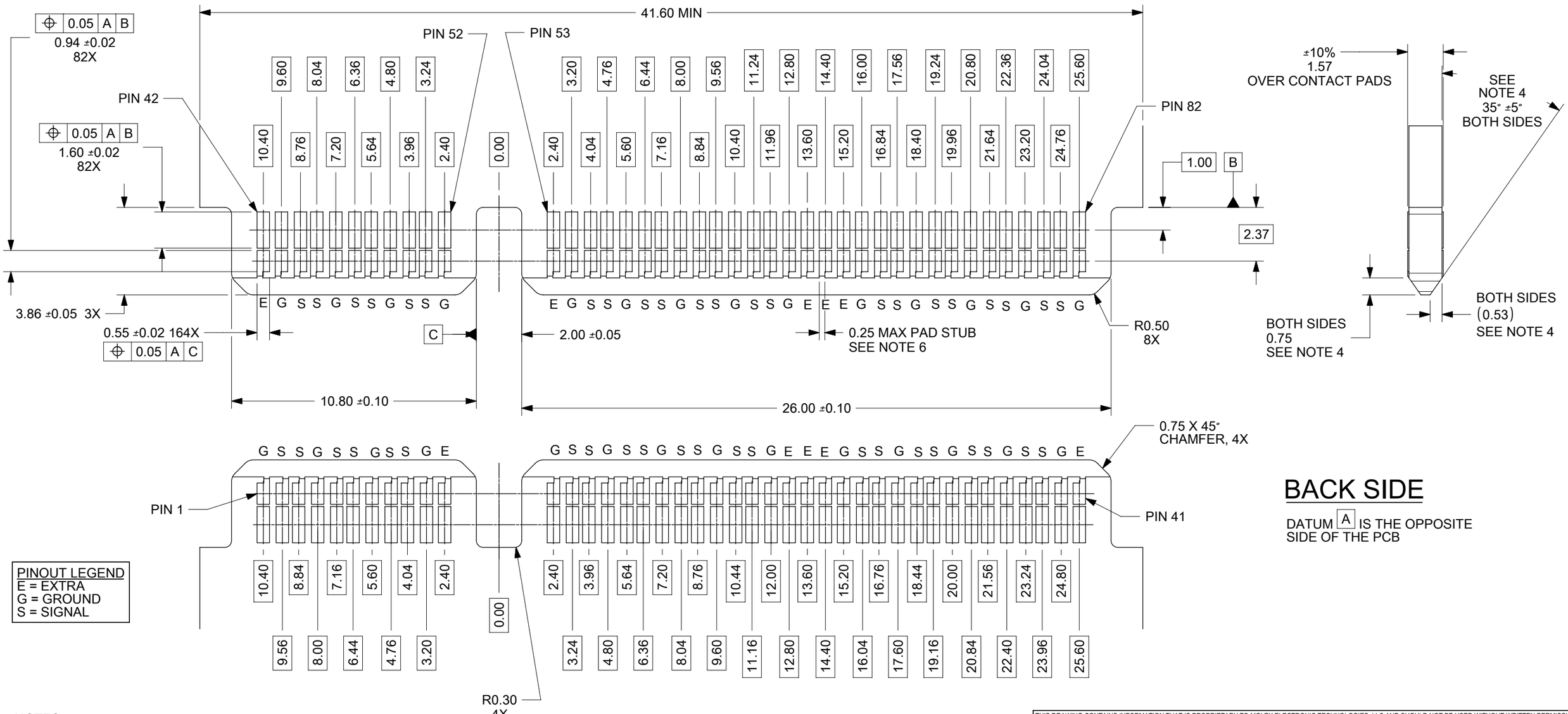
DOCUMENT STATUS	P1	RELEASE DATE	2019/09/06 02:51:33

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

EDGECARD LAYOUT - 82 CKT

FRONT SIDE

DATUM A IS THE OPPOSITE SIDE OF THE PCB



PINOUT LEGEND
E = EXTRA
G = GROUND
S = SIGNAL

BACK SIDE

DATUM A IS THE OPPOSITE SIDE OF THE PCB

NOTES:
1. PIN NUMBERING IS FOR REFERENCE ONLY. OTHER PIN NUMBERS WILL NOT AFFECT THE OPERATION OF THE CONNECTOR.
2. EDGE CARD SHOULDERS STOP ON RECEPTACLE SHOULDERS. EDGE CARD BOTTOM DOES NOT CONTACT RECEPTACLE PCB.
3. PAD SET BACK FROM CHAMFER ENOUGH TO ACCOMMODATE LARGEST CHAMFER WITHOUT DAMAGE TO PAD EDGE.
4. CHAMFER DEPTH SHOULD BE AS LARGE AS PRACTICAL TO ENSURE CORRECT MATING TO THE RECEPTACLE.
5. ALL CHAMFERED EDGES SHOULD BE ROUNDED WHERE POSSIBLE.
6. INTERNAL PLATING BRIDGES ARE PREFERRED TO ELIMINATE PAD STUB.

DIMENSION UNITS	SCALE
mm	6:1

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 -5105

EC NO: 623611
DRWN: JBINGHAM 2019/09/03
CHK'D: KLANG 2019/09/06
APPR: KLANG 2019/09/06

INITIAL REVISION:
DRWN: JBINGHAM 2016/08/25
APPR: JBINGHAM 2016/09/07

molex

SPEEDSTACK
RECEPTACLE ASSEMBLY SALES DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-171450-5000	PSD	001	B

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	B-SIZE	171450	SEE CHART	GENERAL MARKET	8 OF 8

DOCUMENT STATUS	P1	RELEASE DATE	2019/09/06 02:51:33

FORMAT: master-lb-prod-B
REVISION: H
DATE: 2018/01/18