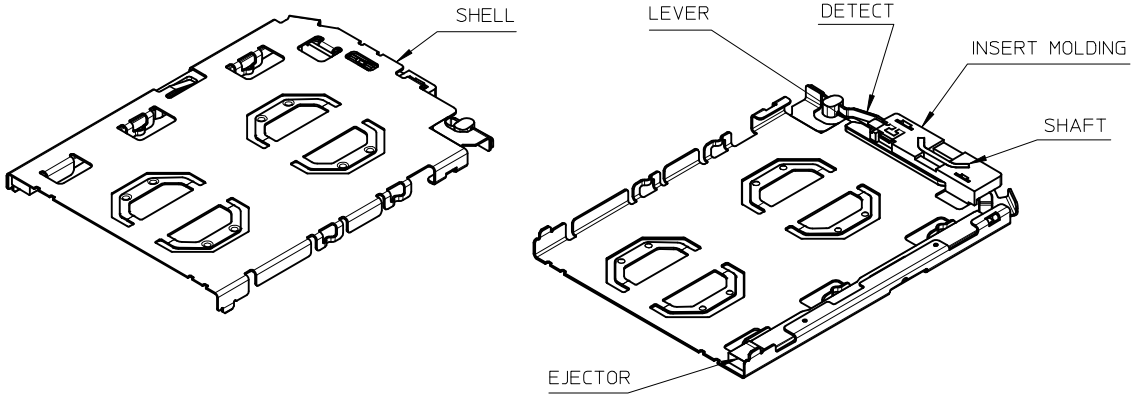
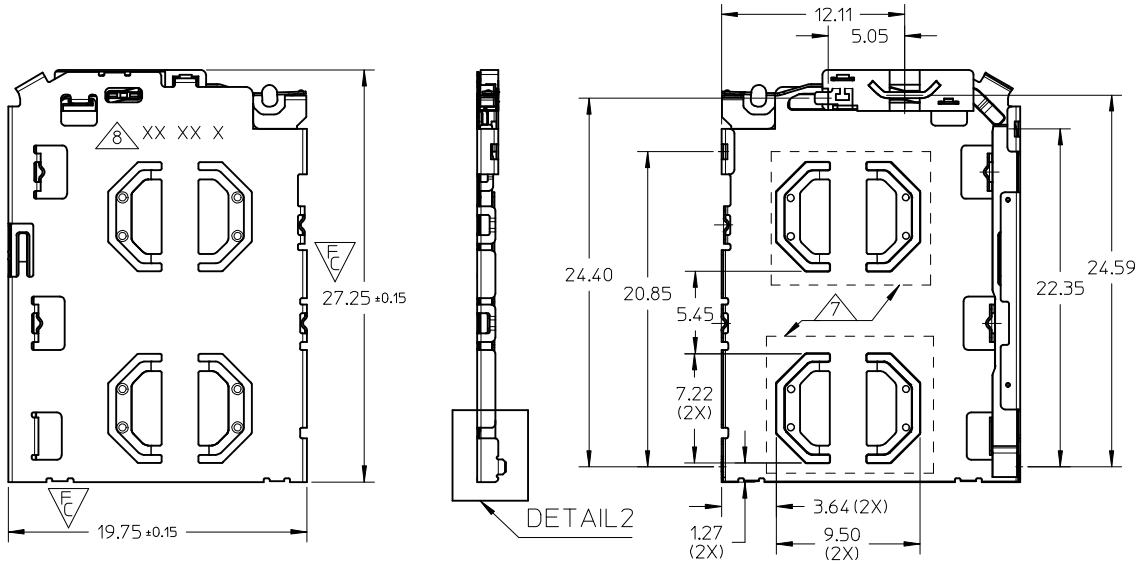
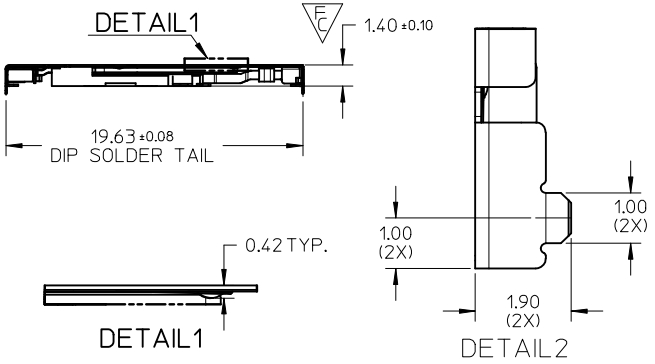
THIS DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS & VERIFICATIONS.





NOTES:
1. MATERIALS:
INSERT MOLD HOUSING: LCP, UL94V-0;
LEVER, SHAFT , EJECTOR , SHELL: STAINLESS STEEL;
DETECT SPRING: COPPER ALLOY;
2. FINISHES:
DETECT SPRING:
1.27um MIN. NICKEL UNDERPLATING OVERALL;
0.127um MIN. GOLD PLATING ON CONTACT AREA;
1.27 um MIN. TIN PLATING ON SOLDERING TAIL;
SHELL:
1.27um MIN NICKEL UNDERPLATING OVERALL;
0.025um MIN GOLD PLATING ON CONTACT AREA AND SOLDERING AREA;
SHAFT: 1.27um MIN TIN ON SOLDERING TAIL;
3. PRODUCT SPECIFICATION: PS-151031-001;
4. PACKAGING SPECIFICATION: PK-151031-001;PK-151032-001
5. SOLDER TAIL COPLANARITY: 0.10 MM MAX BEFORE REFLOW
6. THIS PART IS A FRAME ONLY, IT SHOULD BE USED TOGETHER WITH 0.35MM BLOCK SIM 151032 FOR AN ENTIRE SIM POP OUT SYSTEM;
7. 0.10 MINIMUM KEEP OUT ZONE FROM TOP SURFACE OF SHELL DURING INSERTION AND WITHDRAWAL OF TRAY (WITH SIM CARD)
8. DATE CODE PRINTED: XX XX X
DAY
WEEK
YEAR



REV	DESCRIPTION
7	CHANGE BLOCK SIM AND TRAY EC NO: S2014-0434 2013/11/04 DRWN:JZENG 2014/01/02 CH'KD:JTAN02 2014/01/27 APPR:KHLIM

QUALITY SYMBOLS
FA=0
FC=4
FB=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.20	± ---
0 PLACE	± ---	± ---

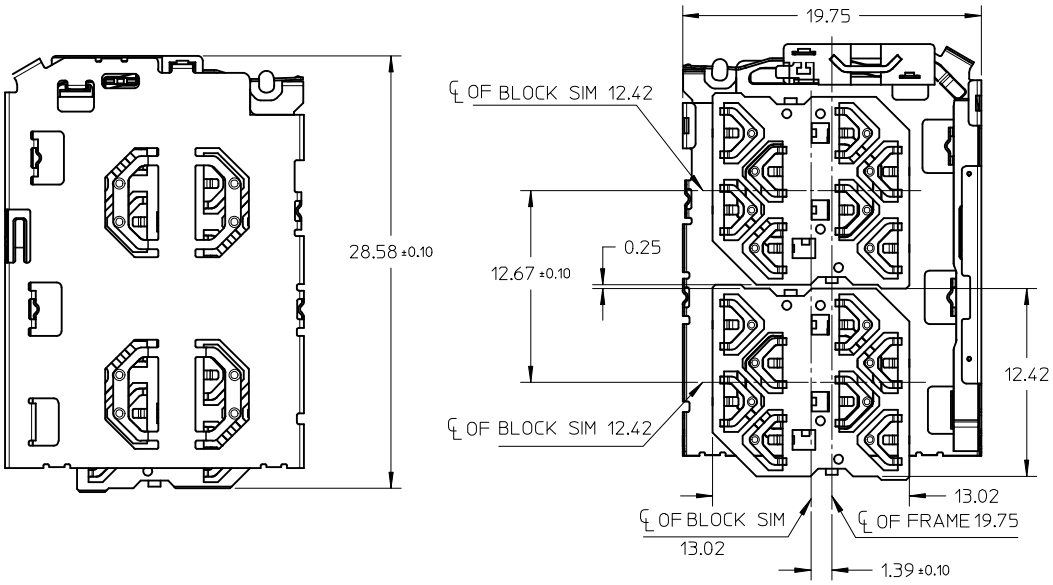
ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

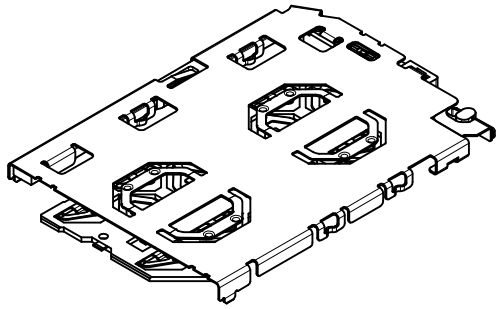
DIMENSION STYLE	MM ONLY
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY / DATE	JZENG 2013/11/04
CHECKED BY / DATE	JTAN02 2013/12/05
APPROVED BY / DATE	KHLIM 2014/01/27
MATERIAL NO.	1510310001
TITLE	DUAL MICRO SIM FRAME 1.40 H
DOCUMENT NO.	SD-151031-0001
SHEET NO.	1 OF 5
SIZE	A3

molex

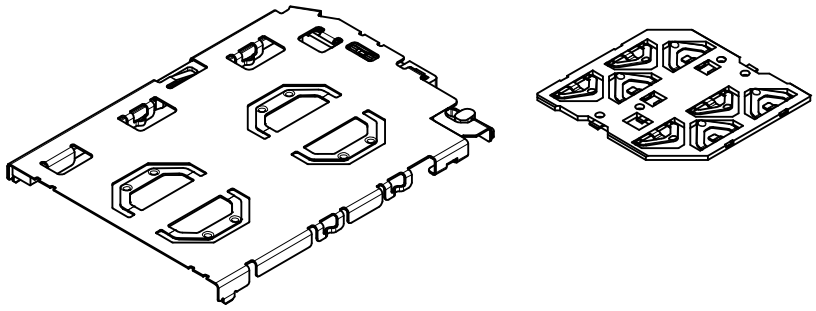
SIM CONNECTOR
(WITH 151032 BLOCK SIM CONNECTOR)



SIM CONNECTOR BOM



FRAME + BLOCK SIM



151032 SERIES

151031 SERIES

THIS DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS & VERIFICATIONS.

SEE SHEET1	2013/11/04	DESCRIPTION	REV
EC NO: S2014-0434	2014/01/02		
DRWN:JZENG	2014/01/27		
CH'KD:JTAN02			
APPR:KHLIM			
7			

QUALITY SYMBOLS
FA=0
FC=0
FV=0

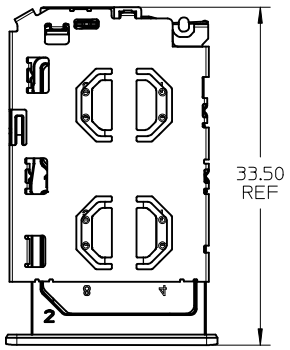
GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.20	± ---
0 PLACE	± ---	± ---
ANGULAR ± 3 °		

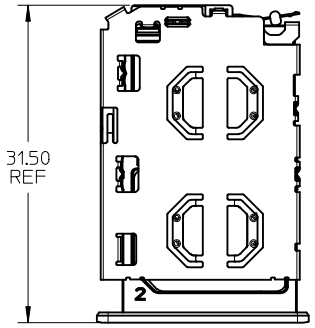
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: NTS	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: JZENG	DATE: 2013/11/04	TITLE: DUAL MICRO SIM FRAME 1.40 H	
CHECKED BY: JTAN02	DATE: 2013/12/05		
APPROVED BY: KHLIM	DATE: 2014/01/27	molex	
MATERIAL NO.: 1510310001		DOCUMENT NO.: SD-151031-0001	SHEET NO.: 2 OF 5
SIZE: A3			

SIM CONNECTOR FRAME AND TRAY



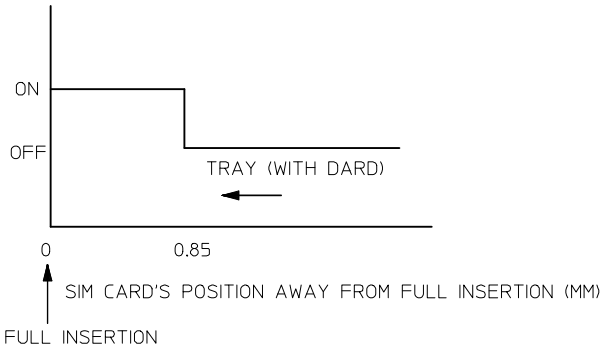
TRAY EJECTED POSITION



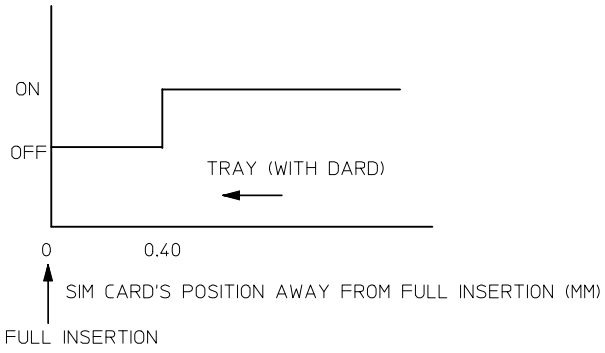
TRAY INSERTION POSITION

TRAY DETECT PIN DEFINITION	
TRAY DETECT PIN GND NORMAL SHORT (WITHOUT TRAY)	TRAY DETECT PIN AFTER TRAY INSERTED AFTER TRAY INSERTED OPEN

SIGNAL PIN



DETECT SWITCH PIN



ENTER DESCRIPTION
EC NO: S2014-0434 2013/11/04
DRWN:JZENG 2014/01/02
CH'KD:JTAN02 2014/01/27
APPR:KHLIM
DESCRIPTION
REV
7

QUALITY SYMBOLS
$\sqrt{F_A}$=0
$\sqrt{F_C}$=0
$\sqrt{F_V}$=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.20	± ---
0 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: JZENG DATE: 2013/11/04
CHECKED BY: JTAN02 DATE: 2013/12/05
APPROVED BY: KHLIM DATE: 2014/01/27

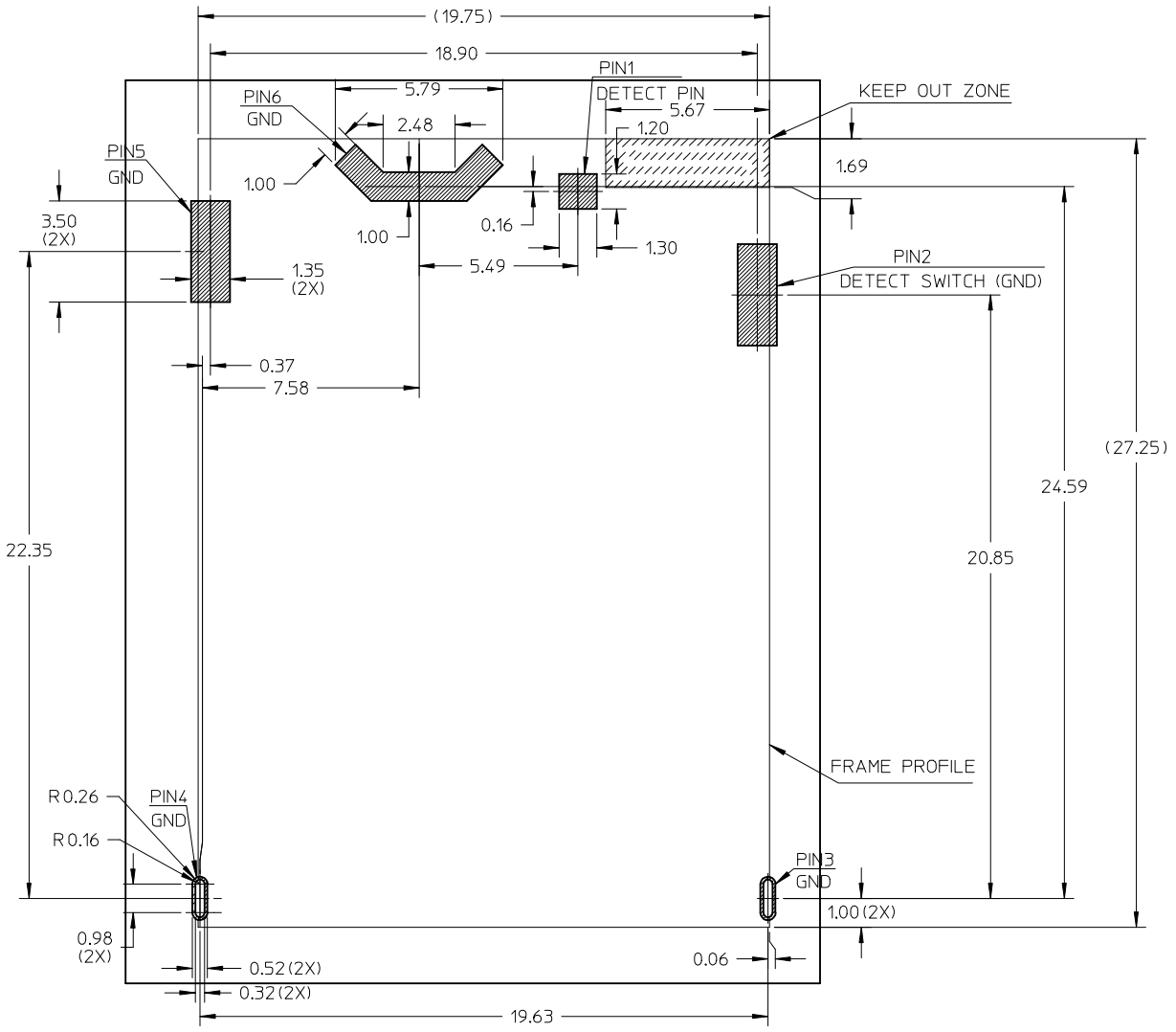
TITLE: DUAL MICRO SIM FRAME 1.40 H

molex

MATERIAL NO.: 1510310001
DOCUMENT NO.: SD-151031-0001
SHEET NO.: 3 OF 5
SIZE: A3

151031 FRAME SOLDERING AREA:

KEEP OUT ZONE:



THIS DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS & VERIFICATIONS.

RECOMMENDED PCB LAYOUT: TOLERANCE ±0.05
RECOMMENDED PCB THICKNESS: 0.80MM
RECOMMENDED STENCIL THICKNESS: 0.10MM

SEE SHEET 1
EC NO: S2014-0434 2013/11/04
DRWN:JZENG 2014/01/02
CH'KD:JTAN02 2014/01/27
APPR:KHLIM
DESCRIPTION
REV
7

QUALITY SYMBOLS
$\sqrt{F_A}$=0
$\sqrt{F_C}$=0
$\sqrt{F_P}$=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.20	± ---
0 PLACE	± ---	± ---

ANGULAR ± 3 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

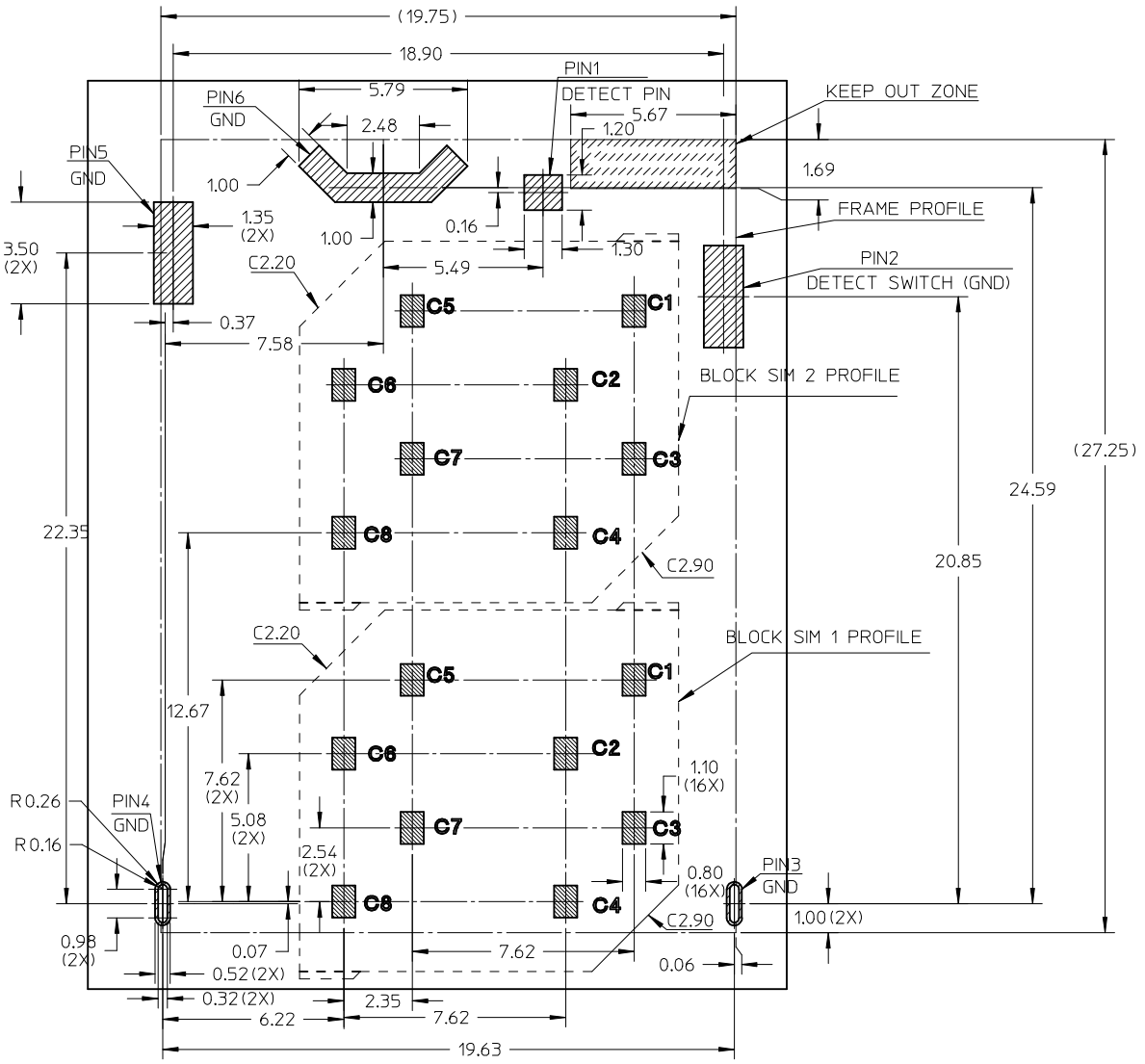
DIMENSION STYLE	MM ONLY
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	JZENG
DATE	2013/11/04
CHECKED BY	JTAN02
DATE	2013/12/05
APPROVED BY	KHLIM
DATE	2014/01/27
MATERIAL NO.	1510310001
SIZE	A3

TITLE
DUAL MICRO SIM FRAME
1.40 H

molex

DOCUMENT NO. SD-151031-0001
SHEET NO. 4 OF 5

151031 FRAME SOLDERING AREA:
151032 BLOCK SIM SOLDERING AREA:
KEEP OUT ZONE:



THIS DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS & VERIFICATIONS.

RECOMMENDED PCB LAYOUT: TOLERANCE ±0.05
RECOMMENDED PCB THICKNESS: 0.80MM
RECOMMENDED STENCIL THICKNESS: 0.10MM

SEE SHEET 1
EC NO: S2014-0434 2013/11/04
DRWN:JZENG 2014/01/02
CH'KD:JTAN02 2014/01/27
APPR:KHLIM
DESCRIPTION
REV
7

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.20	± ---
0 PLACE	± ---	± ---

ANGULAR ± 3 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

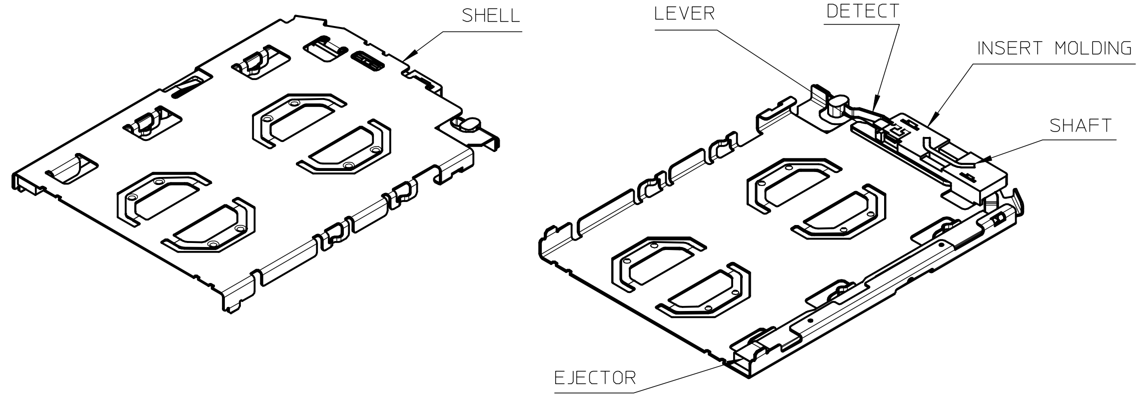
DRAWN BY: JZENG DATE: 2013/11/04
CHECKED BY: JTAN02 DATE: 2013/12/05
APPROVED BY: KHLIM DATE: 2014/01/27

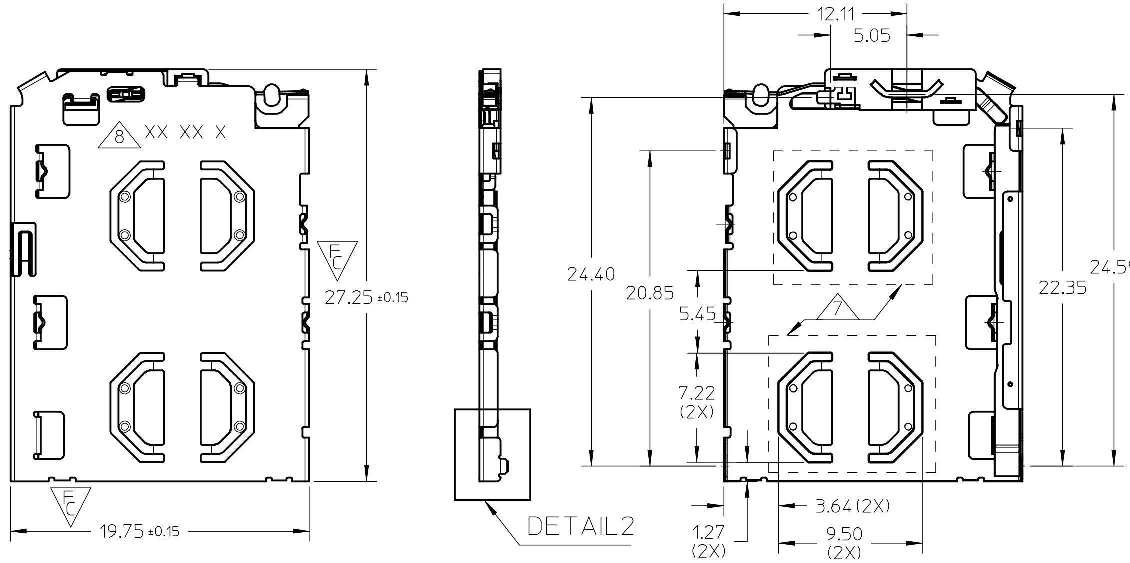
TITLE: DUAL MICRO SIM FRAME 1.40 H

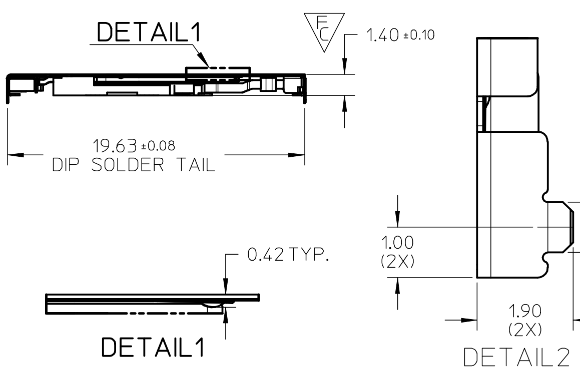
molex

MATERIAL NO.: 1510310001
DOCUMENT NO.: SD-151031-0001
SHEET NO.: 5 OF 5
SIZE: A3

THIS DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS & VERIFICATIONS.







NOTES:

1. MATERIALS:
INSERT MOLD HOUSING: LCP, UL94V-0;
LEVER, SHAFT , EJECTOR , SHELL: STAINLESS STEEL;
DETECT SPRING: COPPER ALLOY;
2. FINISHES:
DETECT SPRING:
1.27um MIN. NICKEL UNDERPLATING OVERALL;
0.127um MIN. GOLD PLATING ON CONTACT AREA;
1.27 um MIN. TIN PLATING ON SOLDERING TAIL;
SHELL:
1.27um MIN NICKEL UNDERPLATING OVERALL;
0.025um MIN GOLD PLATING ON CONTACT AREA AND SOLDERING AREA;
SHAFT: 1.27um MIN TIN ON SOLDERING TAIL;
3. PRODUCT SPECIFICATION: PS-151031-001;
4. PACKAGING SPECIFICATION: PK-151031-001;PK-151032-001
5. SOLDER TAIL COPLANARITY: 0.10 MM MAX BEFORE REFLOW
6. THIS PART IS A FRAME ONLY, IT SHOULD BE USED TOGETHER WITH 0.35MM BLOCK SIM 151032 FOR AN ENTIRE SIM POP OUT SYSTEM;
7. 0.10 MINIMUM KEEP OUT ZONE FROM TOP SURFACE OF SHELL DURING INSERTION AND WITHDRAWAL OF TRAY (WITH SIM CARD)
8. DATE CODE PRINTED: XX XX X (YEAR, WEEK, DAY)

REV	DESCRIPTION		
3	UPDATED DRAWING EC NO: S2014-0434 DRWN: JZENG 2013/12/13 CH'KD: JTAN02 2014/01/02 APPR: KHLIM 2014/01/27		

QUALITY SYMBOLS: FA=0, FC=4, FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.20	± ---
0 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	SCALE	DESIGN UNITS	
MM ONLY	NTS	METRIC	THIRD ANGLE PROJECTION

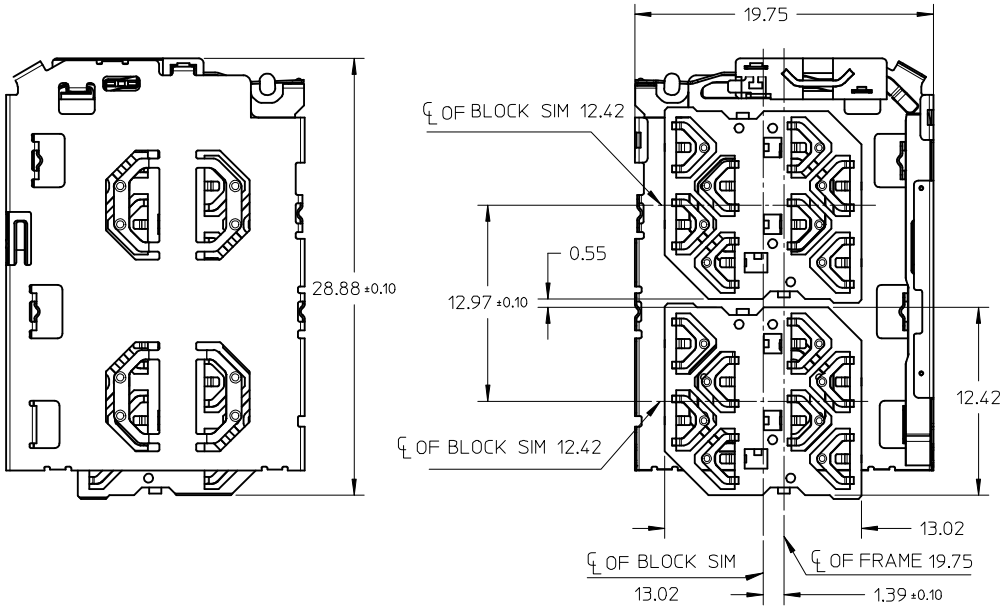
DRAWN BY: JZENG — DATE: 2013/12/13
CHECKED BY: — DATE:
APPROVED BY: KHLIM — DATE: 2014/01/27

TITLE: DUAL MICRO SIM FRAME 1.40H

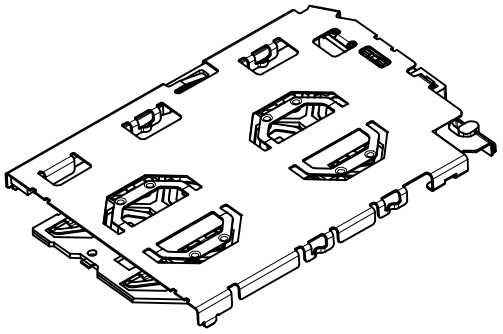
molex

MATERIAL NO.: 1510310001
DOCUMENT NO.: SD-151031-0002
SHEET NO.: 1 OF 4
SIZE: A3

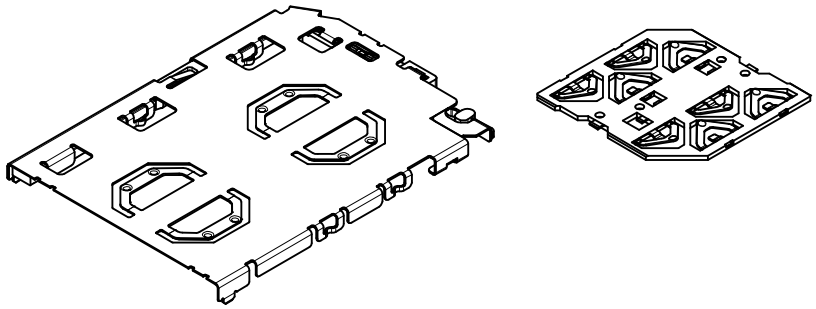
SIM CONNECTOR
(WITH 151032 BLOCK SIM CONNECTOR)



SIM CONNECTOR BOM



FRAME + BLOCK SIM



151032 SERIES

151031 SERIES

THIS DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS & VERIFICATIONS.

SEE SHEET1	2013/12/13	JZENG	DESCRIPTION
EC NO: S2014-0434	2014/01/02	JTANG2	
3	2014/01/27	KHLIM	REV

QUALITY SYMBOLS
FA=0
FC=0
FV=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.20	± ---
0 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY	NTS	METRIC	

DRAWN BY / DATE	JZENG 2013/12/13
CHECKED BY / DATE	
APPROVED BY / DATE	KHLIM 2014/01/27
MATERIAL NO.	1510310001
SIZE	A3

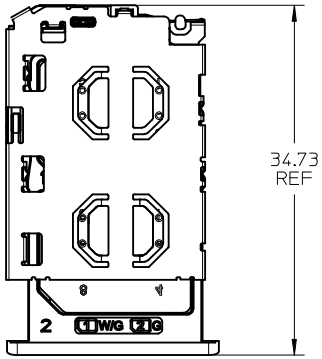
TITLE: DUAL MICRO SIM FRAME 1.40H

molex

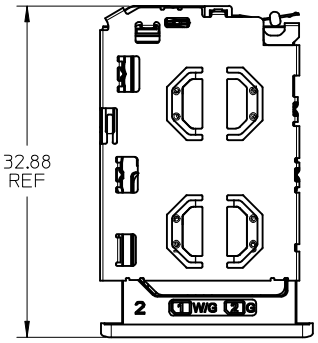
DOCUMENT NO.: SD-151031-0002

SHEET NO.: 2 OF 4

SIM CONNECTOR FRAME AND TRAY

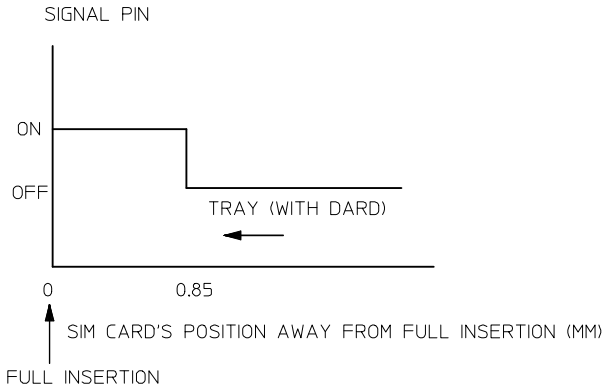


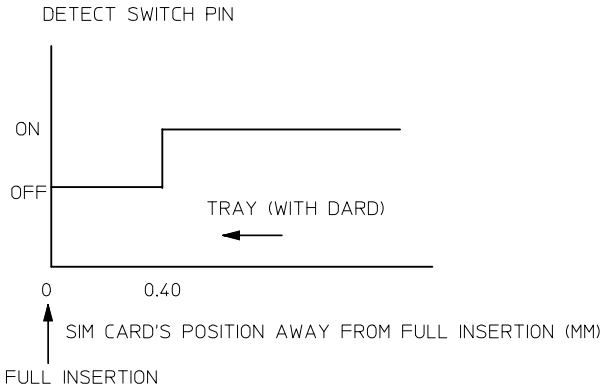
TRAY EJECTED POSITION



TRAY INSERTION POSITION

TRAY DETECT PIN DEFINITION	
TRAY DETECT PIN GND NORMAL SHORT (WITHOUT TRAY)	TRAY DETECT PIN AFTER TRAY INSERTED AFTER TRAY INSERTED OPEN





SEE SHEET 1
EC NO: S2014-0434 2013/12/13
DRWN:JZENG 2014/01/02
CH'KD:JTANG2 2014/01/27
APPR:KHLIM
DESCRIPTION
REV
3

QUALITY SYMBOLS
FA=0
FC=0
FV=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.20	± ---
0 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

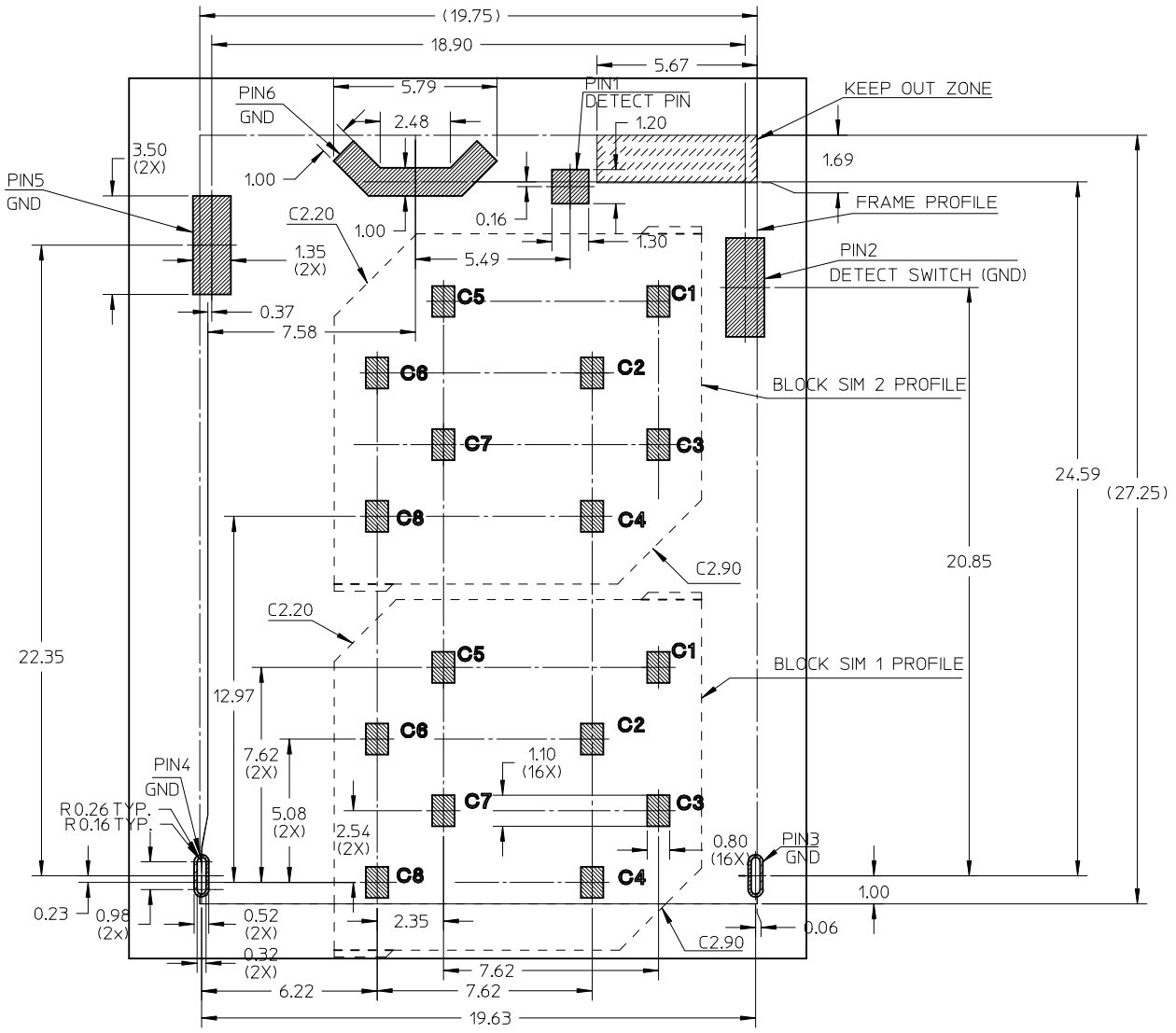
DRAWN BY: JZENG DATE: 2013/12/13
CHECKED BY: DATE:
APPROVED BY: KHLIM DATE: 2014/01/27

TITLE: DUAL MICRO SIM FRAME 1.40H

molex

MATERIAL NO.: 1510310001
DOCUMENT NO.: SD-151031-0002
SHEET NO.: 3 OF 4
SIZE: A3

151031 FRAME SOLDERING AREA:
151032 BLOCK SIM SOLDERING AREA:
KEEP OUT ZONE:



THIS DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS & VERIFICATIONS.

RECOMMENDED PCB LAYOUT: TOLERANCE ±0.05
RECOMMENDED PCB THICKNESS: 0.80MM
RECOMMENDED STENCIL THICKNESS: 0.10MM

SEE SHEET 1
EC NO: S2014-0434 2013/12/13
DRWN:JZENG 2014/01/02
CH'KD:JTANO2 2014/01/27
APPR:KHLIM 2014/01/27
DESCRIPTION
REV
3

QUALITY SYMBOLS
F_A=0
F_C=0
F_P=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.20	± ---
0 PLACE	± ---	± ---

ANGULAR ± 3 °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY: JZENG DATE: 2013/12/13
CHECKED BY: DATE:
APPROVED BY: KHLIM DATE: 2014/01/27

TITLE: DUAL MICRO SIM FRAME 1.40H

molex

MATERIAL NO.: 1510310001
DOCUMENT NO.: SD-151031-0002
SHEET NO.: 4 OF 4
SIZE: A3