

-DATE CODE-
 Example: M8B15A1
 M-> Molex initial
 8-> Year(2018)
 B-> Month(November) 1, ...9, A, B, C
 15-> Date(15th)
 A-> Site initial(Ansan)
 1-> Manufacture line number

No Interference or Insulation Area
 for mSD contact terminals's working

NOTES

1. MATERIALS : SEE TABLE
2. FINISHES : SEE TABLE
3. MATE WITH : microSD Card + nanoSIM(UICC 4FF) Cards
4. PRODUCT SPECIFICATIONS : PS-2014581114-001
5. PACKING SPECIFICATIONS : PS-2014581114-500
6. COPLANARITY OF SOLDER TAILS BEFORE REFLOW : Max 0.08mm
7. COPLANARITY OF SOLDER TAILS AFTER 250°C 2TIMES REFLOW : Max 0.10mm
8. REFERENCE CARD DIMENSIONS ARE WITH STANDARD DIMENSION CARD
9. CUSTOMERS CTF DIMENSIONS ARE EQUAL TO MOLEX MAJOR QUALITY SYMBOL(∇)
10. RECOMMENDED METAL MASK IS THICKNESS 0.1mm WITH APERTURE RATIO 150% FOR BETTER SOLDERING.
11. GUARANTEE SPACE 0.2mm OVER THE TOP SURFACE OF THE PRODUCT WHEN MOUNTING ON PCB.
12. THIS DIMENSION CAN ONLY BE MEASURED UNDER SET CONDITIONS(SMT, PCB, CASE).
 THEREFORE, MEASUREMENT IS NOT POSSIBLE IN THE SOCKET MANUFACTURING,
 IT IS THE THEORETICAL TOLERANCE USING CAD WHEN TRAY POSITION IS 1.90 (or GAP 0.20).
13. BASICALLY ALL DIMENSIONS ARE MESURED IN THE STATE OF BEFORE SMT, AND THE DIMENSIONS AFFECTED BY THE TRAY FOLLOW THE PERFORMANCE OF THE PRODUCT SPECIFICATIONS AFTER TRAY INSERTION & REMOVAL.

NO.	Description	Materials	Finishes
1	SHELL with DETECTOR(COM/GND)	STAINLESS STEEL (S30400)	DETECTOR : GOLD 0.1µm MIN on CONTACT(BOTTOM SIDE) OTHER AREAS AND BASE PLATING : NICKEL 1.25µm MIN.
2	CONTACT UPPER(8P)	COPPER ALLOY	CONTACT nSIM : GOLD 0.05µm MIN. OVER Pd-Ni 0.3µm MIN. CONTACT mSD : GOLD 0.05µm MIN Pd-Ni 0.2µm MIN. SWITCH : GOLD 0.05µm MIN Pd-Ni 0.1µm MIN. SOLDERS : GOLD 0.05µm MIN. BASE PLATING : NICKEL 1.25µm MIN. (Pd-Ni IS PALLADIUM NICKEL)
3	CONTACT LOWER(12P) with SWITCH		
4	HOUSING UPPER	LIQUID CRYSTAL POLYMER	BLACK COLOR(UL94V-0)
5	HOUSING LOWER		
6	BAR	STAINLESS STEEL (S30400)	NONE
7	HINGE		

DOCUMENT STATUS	P1	RELEASE DATE	2020/09/29	07:33:57
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201458-1114	2014581114
PART(ORDER) NO.	MATERIAL NO.

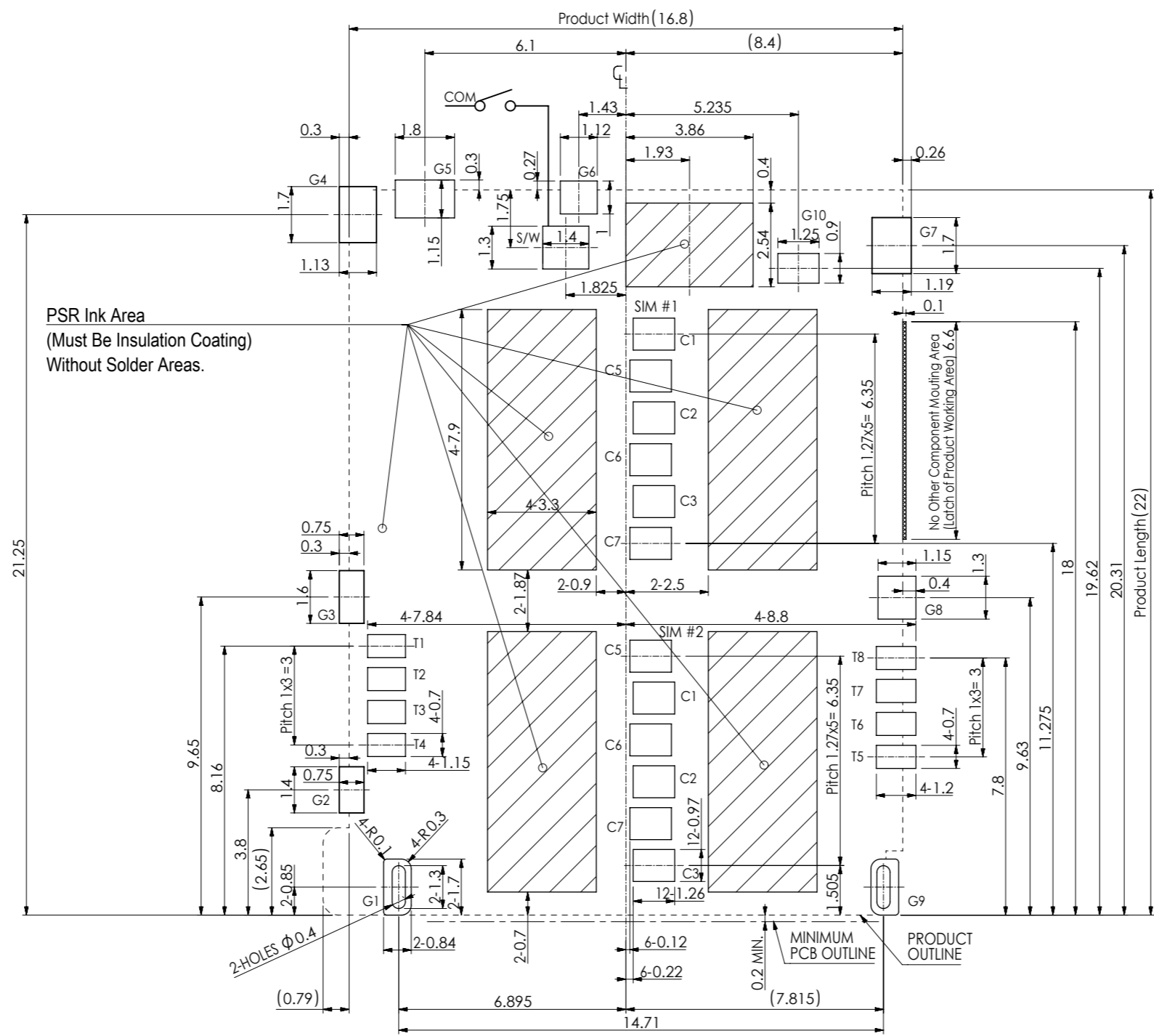
FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:	
∇A = 0	mm	SCALE	4:1		
∇E = 4	GENERAL TOLERANCES (UNLESS SPECIFIED)				
∇F = 0	ANGULAR TOL ± 1.0°				
DIVISIONAL SYMBOLS		4 PLACES ± 0.12		EC NO: 646199	
		3 PLACES ± 0.12		DRWN: ICYANG 2020/09/29	
		2 PLACES ± 0.12		CHK'D: SHCHU 2020/09/29	
		1 PLACE ± 0.15		APPR: SHCHU 2020/09/29	
		0 PLACES ± 0.15		INITIAL REVISION:	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: ICYANG 2020/08/21	
		THIRD ANGLE PROJECTION		APPR: SHCHU 2020/09/29	
		DRAWING		SERIES	
		A3-SIZE		201458	
		MATERIAL NUMBER		CUSTOMER	
		SEE TABLE		SHEET NUMBER	
		1 OF 5			

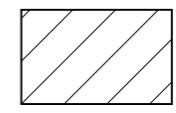
molex

MSD/NSIM/NSIM 3IN3 SOCKET 2.56H STACKED
PIN-EJECT TYPE WITH TRAY, 8P/6P/6P

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2014581114	PSD	GEN	A1



 Hatching Areas are Pattern Prohibition (No Via/No Trace/No Ground) Because, Contact terminals may touch there.

RECOMMENDED PCB LAYOUT [FRONT VIEW]

(TOLERANCE : ±0.05)

* This product has no C4, C8 Contact terminal

[nanoSIM CARD PIN-MAP]

PIN NO.	DESCRIPTION
C1	Vcc(Supply V)
C2	RST(Reset)
C3	CLK(Clock)
(C4)	(None)
C5	GND(Ground)
C6	Vpp(Program V)
C7	I/O
(C8)	(None)

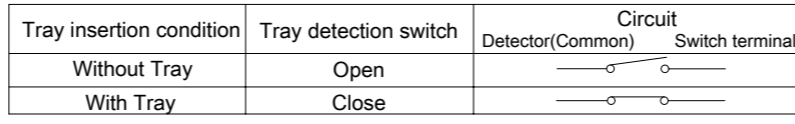
*There is only one tray insertion/removal detection switch physically. Therefore, After tray detection, This product is necessary to detect the SIM or SD Card separately in software.

[microSD CARD PIN-MAP]

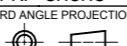
PIN NO.	DESCRIPTION
T1	DAT2
T2	CD/DAT3 ²
T3	CMD
T4	V _{DD}
T5	CLK
T6	Vss (GND)
T7	DAT0
T8	DAT1

G1~G10	GROUND
S/W	TRAY DETECTION SWITCH
COM	ALL OF GROUND(G1~G10)

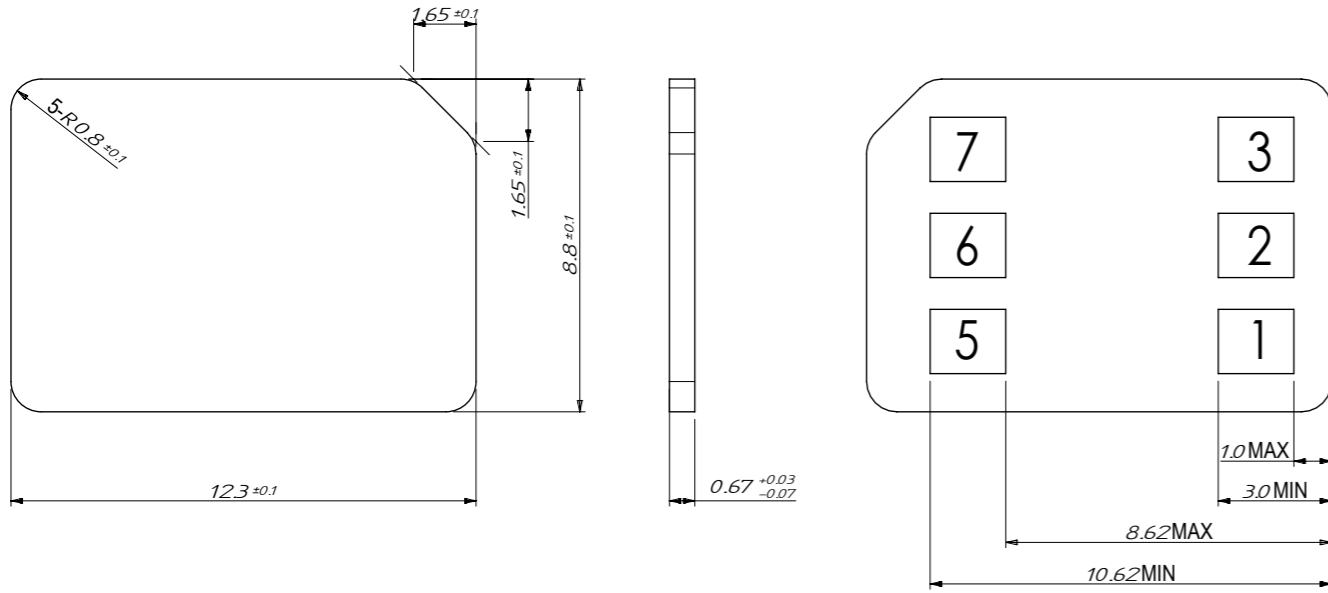
[Circuit diagram for Tray Detection Switch]



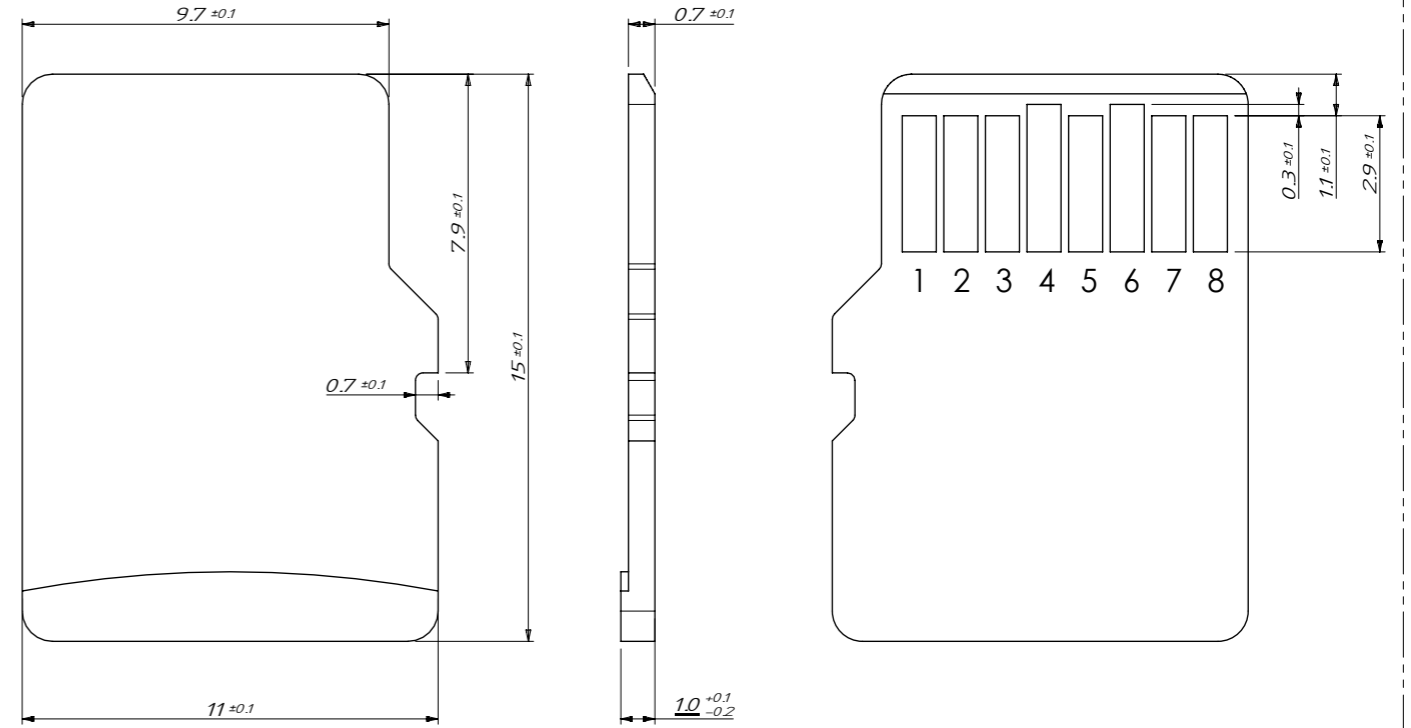
** RECOMMENDED METAL MASK IS THICKNESS 0.1mm WITH APERTURE RATIO 150% FOR BETTER SOLDERING

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC:		molex																	
	<table border="1"> <tr> <th>DIMENSION UNITS</th> <th>SCALE</th> </tr> <tr> <td>mm</td> <td>6:1</td> </tr> </table>	DIMENSION UNITS	SCALE		mm	6:1	<table border="1"> <tr> <td>EC NO: 646199</td> <td>2020/09/29</td> </tr> <tr> <td>DRWN: ICYANG</td> <td>2020/09/29</td> </tr> <tr> <td>CHK'D: SHCHU</td> <td>2020/09/29</td> </tr> <tr> <td>APPR: SHCHU</td> <td>2020/09/29</td> </tr> </table>		EC NO: 646199	2020/09/29	DRWN: ICYANG	2020/09/29	CHK'D: SHCHU	2020/09/29	APPR: SHCHU	2020/09/29	MSD/NSIM/NSIM 3IN3 SOCKET 2.56H STACKED PIN-EJECT TYPE WITH TRAY, 8P/6P/6P				
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	<table border="1"> <tr> <td>ANGULAR TOL</td> <td>± 1.0°</td> </tr> <tr> <td>4 PLACES</td> <td>± 0.12</td> </tr> <tr> <td>3 PLACES</td> <td>± 0.12</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.12</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.15</td> </tr> <tr> <td>0 PLACES</td> <td>± 0.15</td> </tr> </table>	ANGULAR TOL	± 1.0°	4 PLACES	± 0.12	3 PLACES	± 0.12	2 PLACES	± 0.12	1 PLACE	± 0.15	0 PLACES	± 0.15	<table border="1"> <tr> <td>DRWN: ICYANG</td> <td>2020/08/21</td> </tr> <tr> <td>APPR: SHCHU</td> <td>2020/09/29</td> </tr> </table>	DRWN: ICYANG	2020/08/21	APPR: SHCHU	2020/09/29	DOCUMENT NUMBER	DOC TYPE	DOC PART
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DRWN: ICYANG	2020/08/21																				
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER														
			A3-SIZE	201458	2014581114	PSD GEN A1	2 OF 5														

REFERENCE CARDS DRAWING



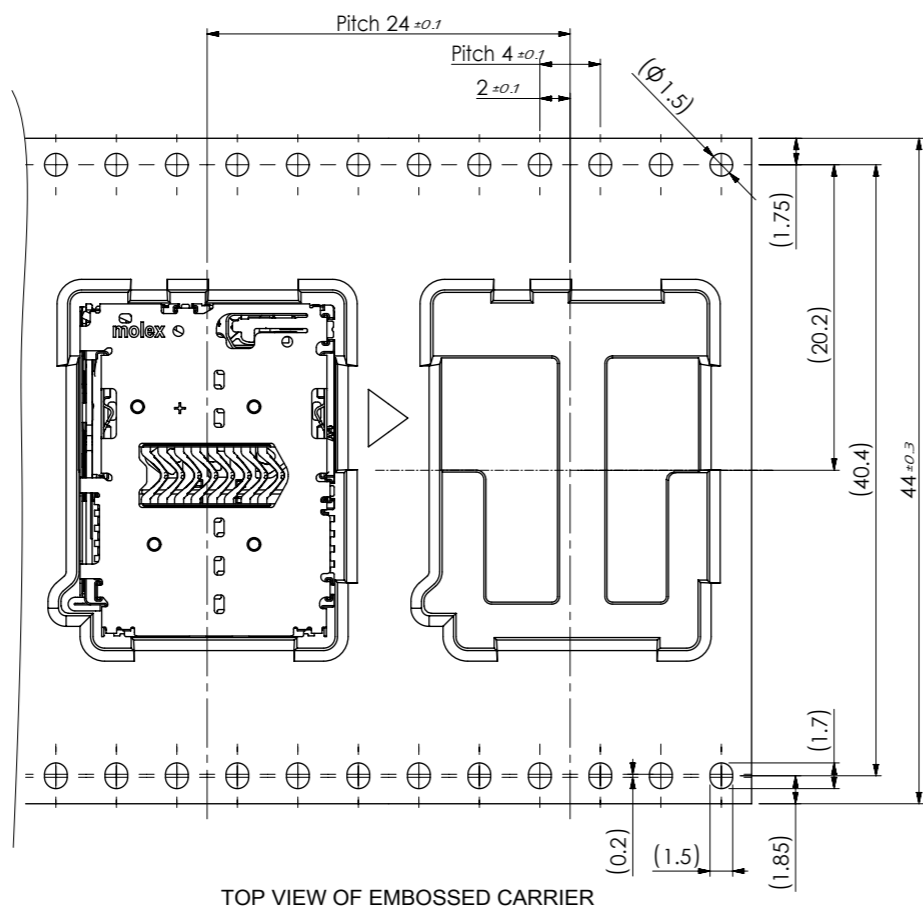
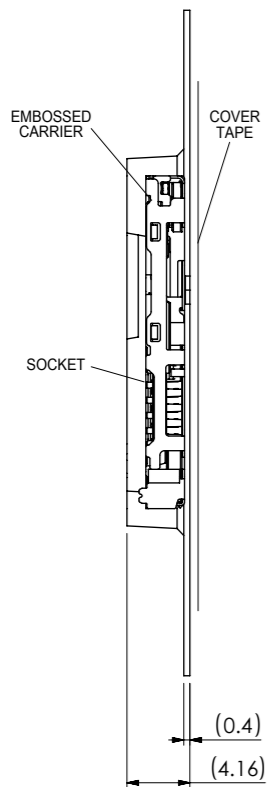
nanoSIM CARD



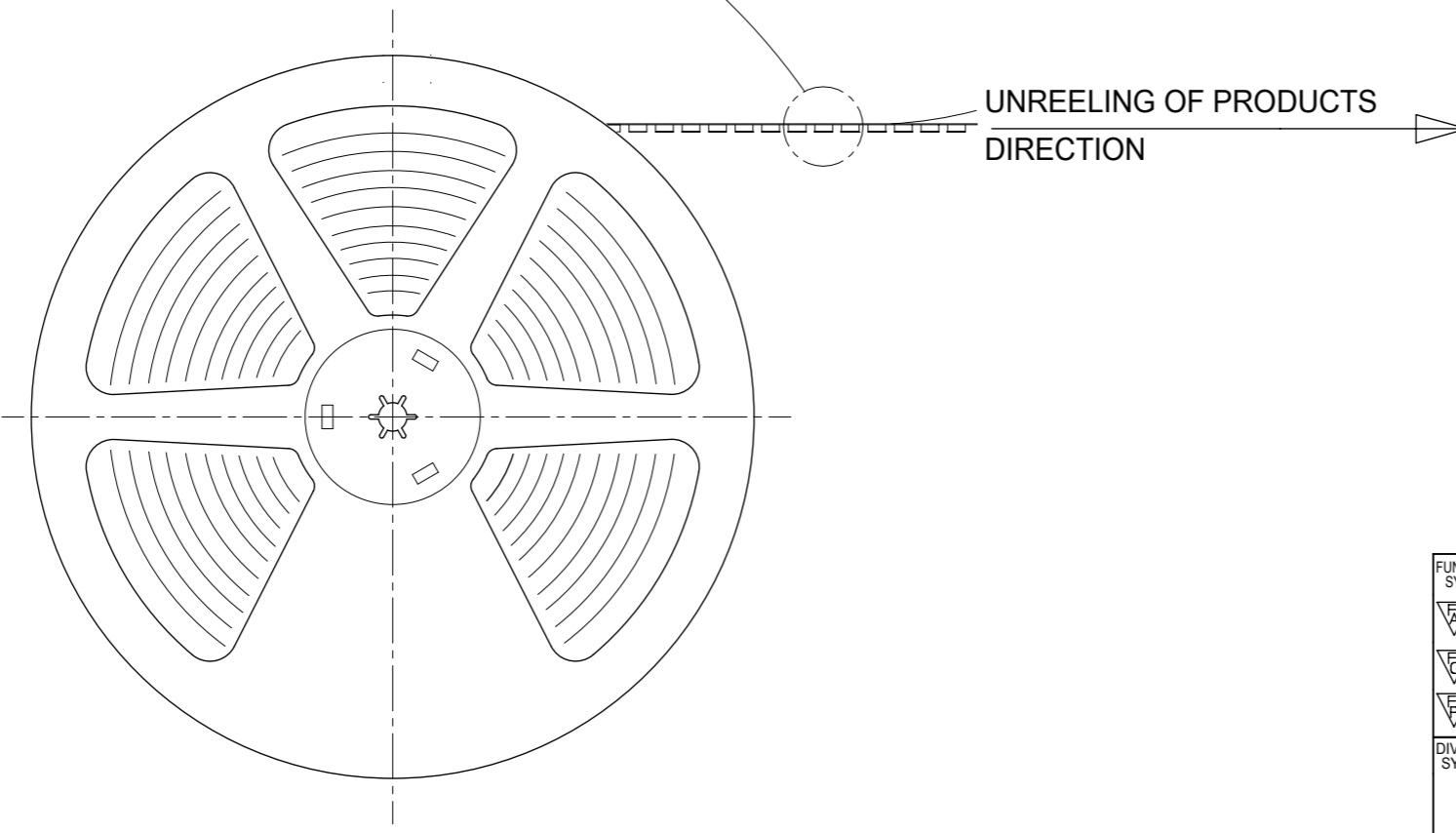
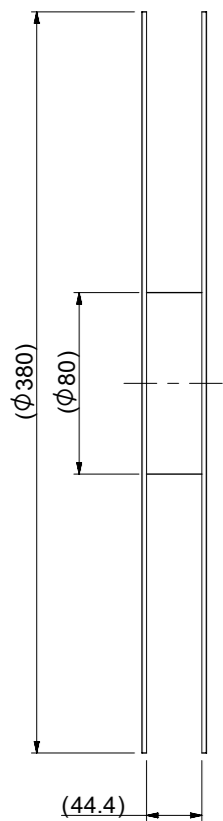
microSD CARD

[Reference standards]
 -microSD Card Specification Addendum Version 4.00
 -ETSI TS 102 221 V12.0.0 Smart Cards, UICC-Terminal interface, Physical and logical characteristic

FUNCTIONAL SYMBOLS FA = 0 FE = 0 FE = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC:		molex
	DIMENSION UNITS: mm	SCALE: 1:1	GENERAL TOLERANCES (UNLESS SPECIFIED)	
	GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 1.0°	
	4 PLACES ± 0.12		3 PLACES ± 0.12	
DIVISIONAL SYMBOLS	EC NO: 646199		2020/09/29	MSD/NSIM/NSIM 3IN3 SOCKET 2.56H STACKED PIN-EJECT TYPE WITH TRAY, 8P/6P/6P
	DRWN: ICYANG		2020/09/29	
	CHK'D: SHCHU		2020/09/29	
	APPR: SHCHU		2020/09/29	
INITIAL REVISION:		PRODUCT CUSTOMER DRAWING		
DRWN: ICYANG		2020/08/21	DOCUMENT NUMBER: 2014581114	DOC TYPE: PSD
APPR: SHCHU		2020/09/29	DOC PART: GEN	REVISION: A1
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING: A3-SIZE	SERIES: 201458
			MATERIAL NUMBER: SEE SHEET 1	CUSTOMER:
			SHEET NUMBER: 5 OF 5	

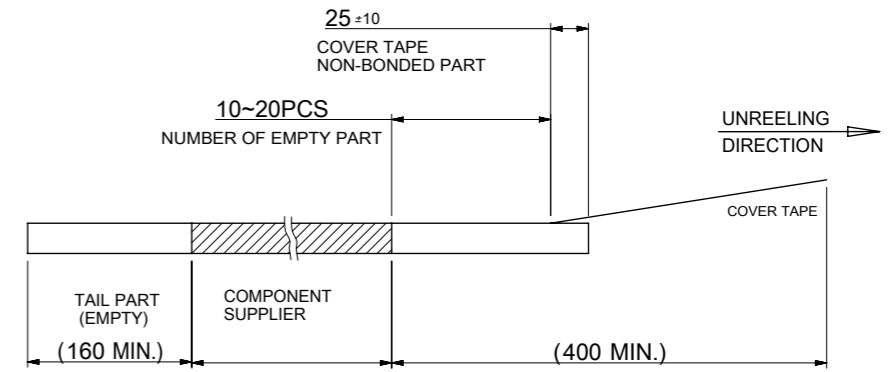


TOP VIEW OF EMBOSSED CARRIER

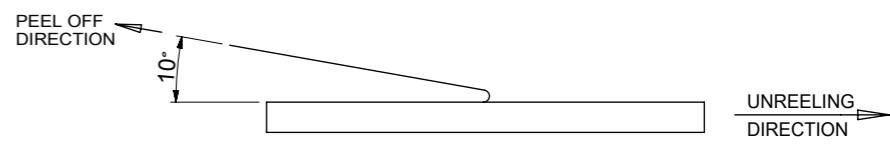


NOTES

- 1. QUANTITY OF PRODUCTS : 900 PCS / 1 REEL
- 2. LEAD LENGTH



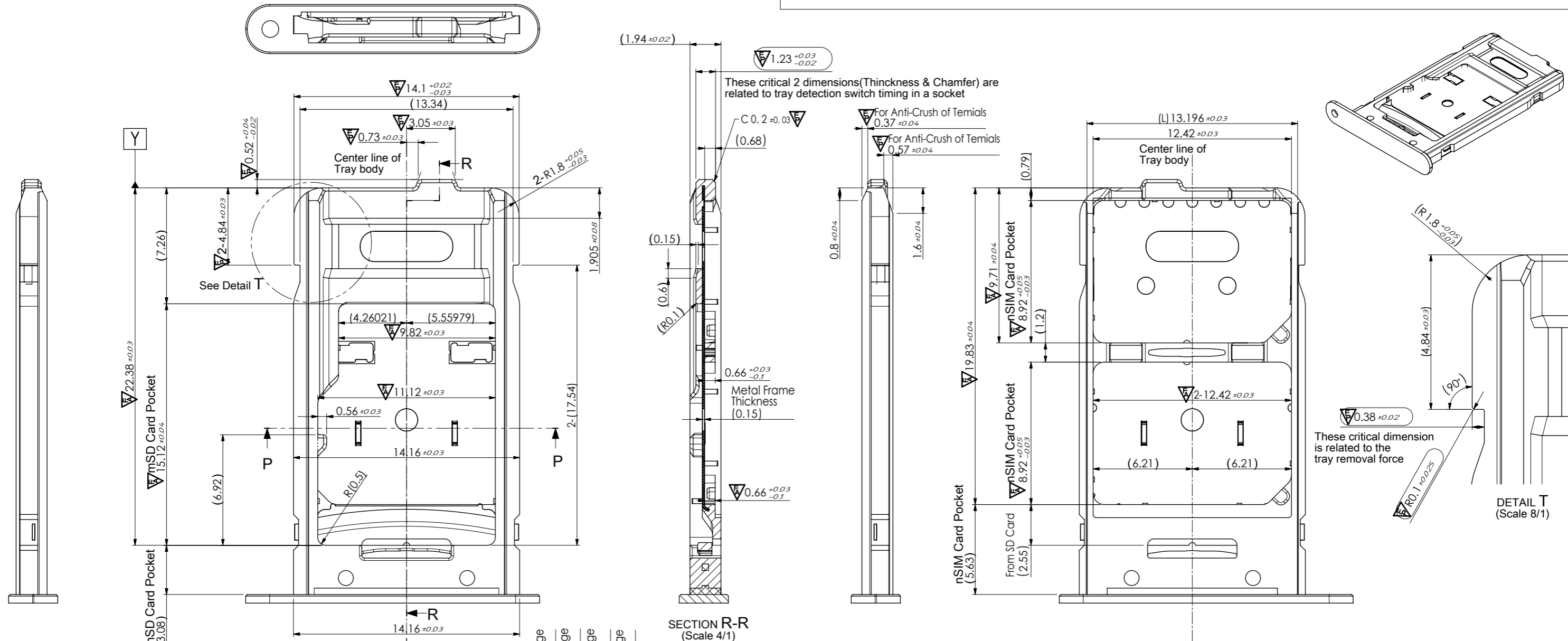
- 3. PEELING OFF FORCE OF COVER TAPE : 0.1N~0.59N(10.2~60gf)
(PEELING DIRECTION AS BELOW)
- PEELING OFF SPEED : 300mm/Min.(Ref.)



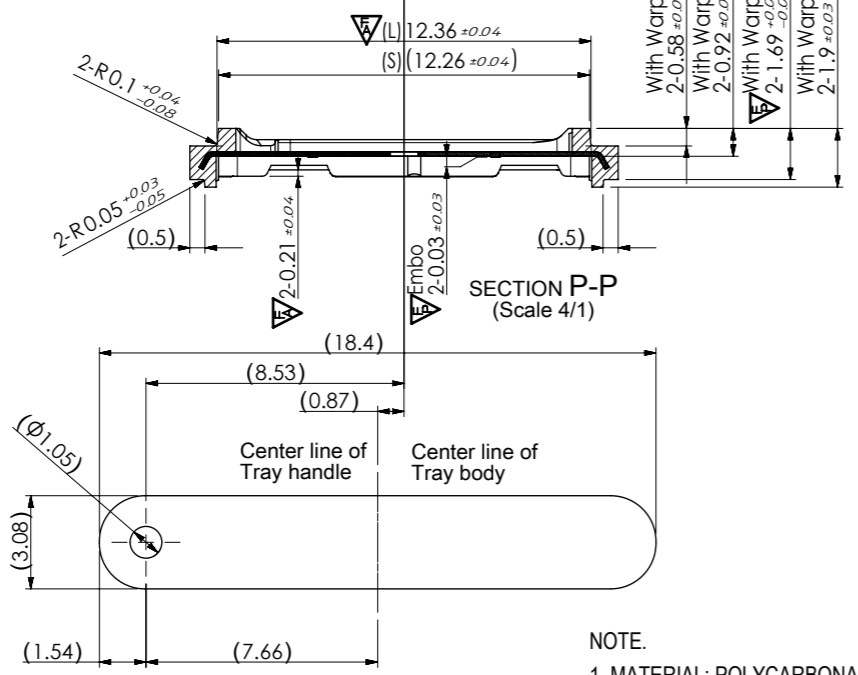
- 4. MATERIALS OF EMBOSSED CARRIER AND COVER TAPE :
PET(POLYETHYLEN TEREPHTHALATE)

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex
	△/A = 0	mm	SCALE	2:1	
DIVISIONAL SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 646199		MSD/NSIM/NSIM 3IN3 SOCKET 2.56H STACKED PIN-EJECT TYPE WITH TRAY, 8P/6P/6P
	△/E = 0	ANGULAR TOL ± 1.0°		DRWN: ICYANG 2020/09/29	
DIVISIONAL SYMBOLS	△/P = 0	4 PLACES	± 0.12	CHK'D: SHCHU 2020/09/29	PRODUCT CUSTOMER DRAWING
		3 PLACES	± 0.12	APPR: SHCHU 2020/09/29	
		2 PLACES	± 0.12	INITIAL REVISION:	DOCUMENT NUMBER
		1 PLACE	± 0.15	DRWN: ICYANG 2020/08/21	2014581114
	0 PLACES	± 0.15	APPR: SHCHU 2020/09/29	DOC TYPE	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	CUSTOMER
			A3-SIZE	201458	PSD GEN A1
				MATERIAL NUMBER	SEE TABLE
				SHEET NUMBER	3 OF 5

Molex shall not be responsible for any infringement to the extent such infringement is the result of (a) use of the Product(s) in combination with any other products not provided by Molex if the infringement would not have occurred but for such combination, (b) any alteration or modification of the Product(s) not undertaken or authorized by Molex if the infringement would not have occurred but for such alteration or modification, (c) Molex's compliance with Buyer's specifications if the infringement would not have occurred but for such compliance, or (d) Buyer's failure to comply with Molex's instructions regarded as necessary to render the Product(s) non-infringing of the infringement would not have occurred if Buyer would have complied with Molex's instructions



REFERENCE



RECOMMENDED SET DESIGN GUIDE FOR TRAY POLARIZING (TOLERANCE : ±0.05)

- NOTE.**
- MATERIAL: POLYCARBONATE + STAINLESS STEEL(S304-Hard, YIELD STRENGTH 880MPa MIN.)
 - THESE DIMENSIONS ARE AFTER FINISHES
 - SURFACE ROUGHNESS OF OUTSIDE OF TRAY: Ra=1µm MAX.
 - TOTAL WARPAGE 0.08MAX. CAN BE MEASURED BY GO/NO GO GAUGE

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		molex							
12	mm	4:1				MSD/NSIM/NSIM 3IN3 SOCKET 2.56H STACKED PIN-EJECT TYPE WITH TRAY, 8P/6P/6P							
0	GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 646199			2020/09/29						
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
		⊗		A3-SIZE		201458		SEE TABLE		2014581114		PSD GEN A1	