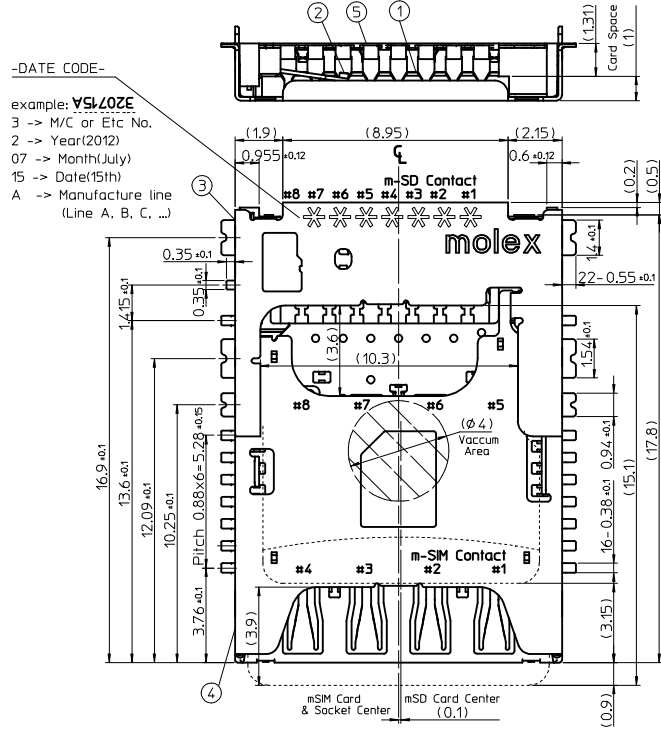
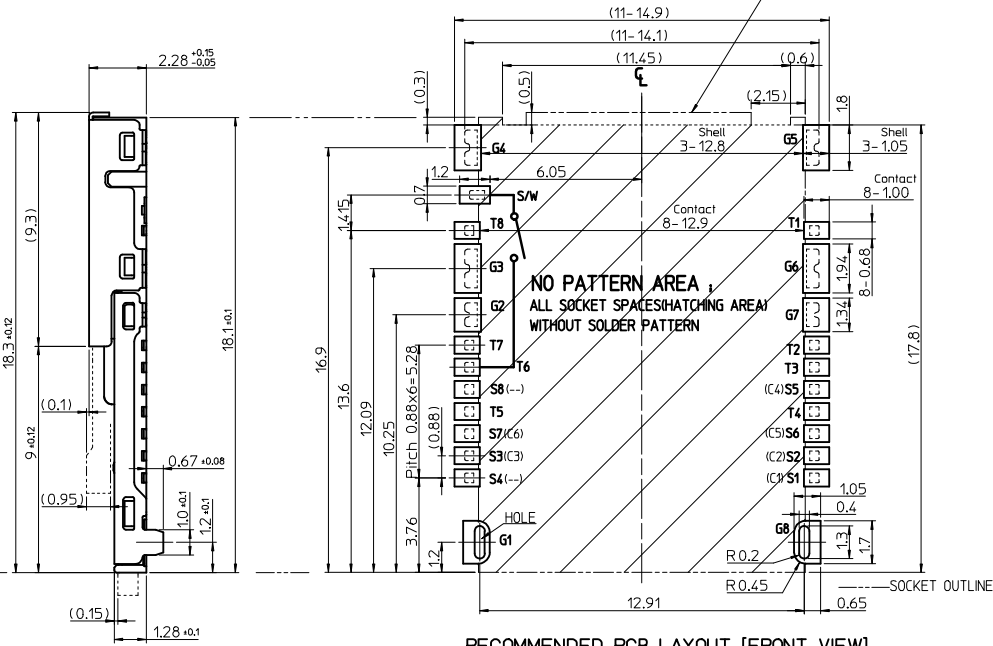


FOR LIMITED USE BY *****



-DATE CODE-
example: **VSL/02E**
3 -> M/C or Etc No.
2 -> Year(2012)
07 -> Month(July)
15 -> Date(15th)
A -> Manufacture line
(Line A, B, C, ...)

11.45x0.5x1.31 = SMT SPACE FOR OTHER PARTS
(10.85x0.25x1.0 = NET SPACE WITH CLEARANCE)



RECOMMENDED PCB LAYOUT [FRONT VIEW]

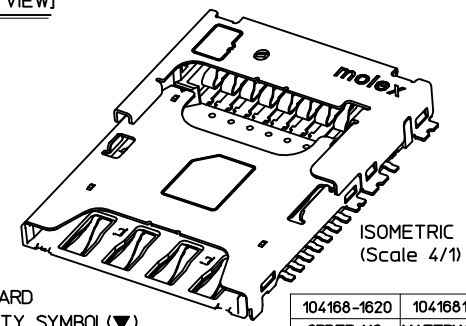
(TOLERANCE : ±0.05)

[microSIM CARD PIN-MAP]

8P	6P	DESCRIPTION
S1	C1	Vcc(Supply V)
S2	C2	RST(Reset)
S3	C3	CLK(Clock)
S4	--	Reserved
S5	C4	GND
S6	C5	Vpp(Program V)
S7	C6	I/O
S8	--	Reserved
G1-G8		GND

[microSD CARD PIN-MAP]

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

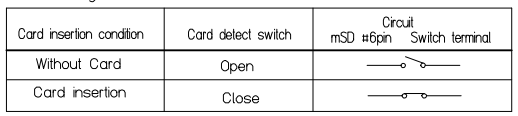


ISOMETRIC (Scale 4/1)

NOTES

1. MATERIALS: SEE TABLE
2. FINISHES: SEE TABLE
3. MATES WITH
 - UPPER: microSD Card
 - LOWER: Micro SIM(UICC) Card
4. PRODUCT SPECIFICATIONS: PS-104168-001
5. PACKING SPECIFICATIONS: SPK-104168-002
6. COPLANARITY OF SOLDER TAILS: 0.1mm MAX.
7. REFERENCE CARD DIMENSIONS ARE WITH STANDARD DIMENSION CARD
8. CUSTOMER'S CTQ DIMENSION(Φ) IS EQUAL TO MOLEX MAJOR QUALITY SYMBOL(▼)

[Circuit diagram for Detection Switch of microSD card]



NO.	PARTS NAME	MATERIALS	FINISHES
1	CONTACT TERMINAL(16P)	COPPER ALLOY	CONTACT -mSIM : GOLD 0.24μm MIN. -mSD & S/W : GOLD 0.14μm MIN. SOLDER : GOLD 0.034μm MIN. BASE : NICKEL 1.274μm MIN.
2	SWITCH TERMINAL	PHOSPHOR BRONZE	
3	microSD SHELL	STAINLESS STEEL	NICKEL 1.274μm MIN.
4	microSIM SHELL	STAINLESS STEEL	NICKEL 1.274μm MIN.
5	HOUSING	LIQUID CRYSTAL POLYMER	NATURAL(IVORY) COLOR, UL94V-0

RELEASED
EC NO: KOR2013-0041
2012/10/24
DRWN: ICYANG
2012/10/24
CHKD: SHCHU
2013/02/04
APPR: YSKIM02

QUALITY SYMBOLS	DESCRIPTION
▼=4	
▽=0	

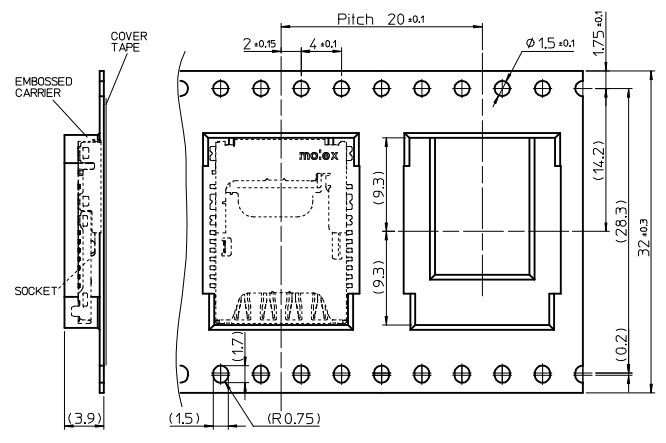
GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
4 PLACES ± --- ± ---	MM ONLY	5/1	METRIC	
3 PLACES ± 0.12 ± ---	DRAWN BY ICYANG	DATE 2012/03/31	TITLE	
2 PLACES ± 0.12 ± ---	CHECKED BY SHCHU	DATE 2012/04/12		
1 PLACE ± 0.15 ± ---	APPROVED BY YSKIM02	DATE 2013/02/04		
0 PLACE ± --- ± ---	MATERIAL NO.			
ANGULAR ± 1 °	SEE TABLE			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

COMBO 2.28H PUSH-PULL MICROSD/MICROSIM 8P/8P WITH DETECT SWITCH



SD-104168-001

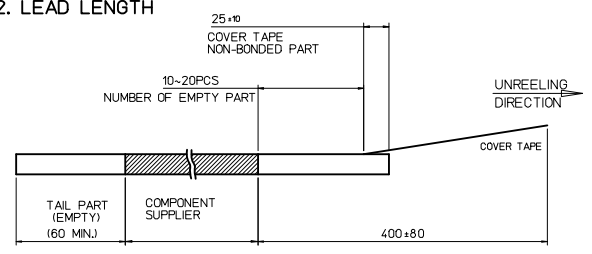
SHEET NO. 1 OF 3



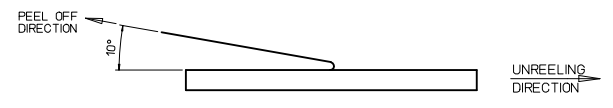
TOP VIEW OF EMBOSSED CARRIER

NOTES

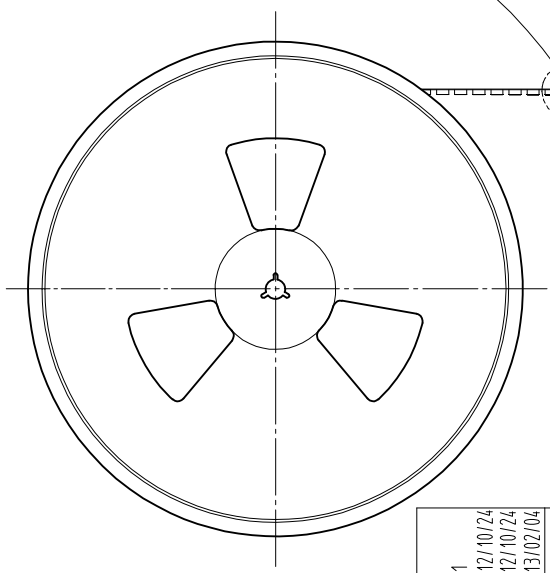
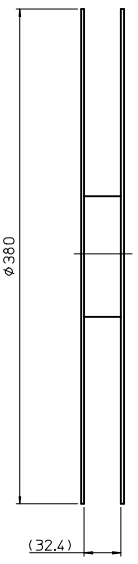
- 1. QUANTITY OF PRODUCTS : 1,200 PCS / 1 REEL
- 2. LEAD LENGTH



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

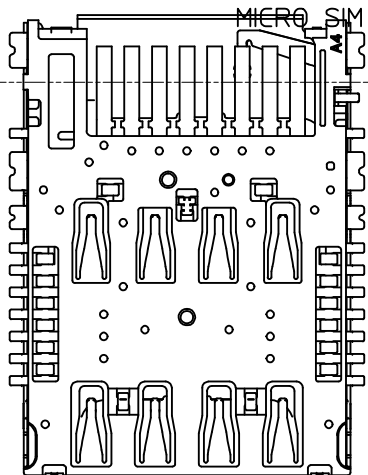
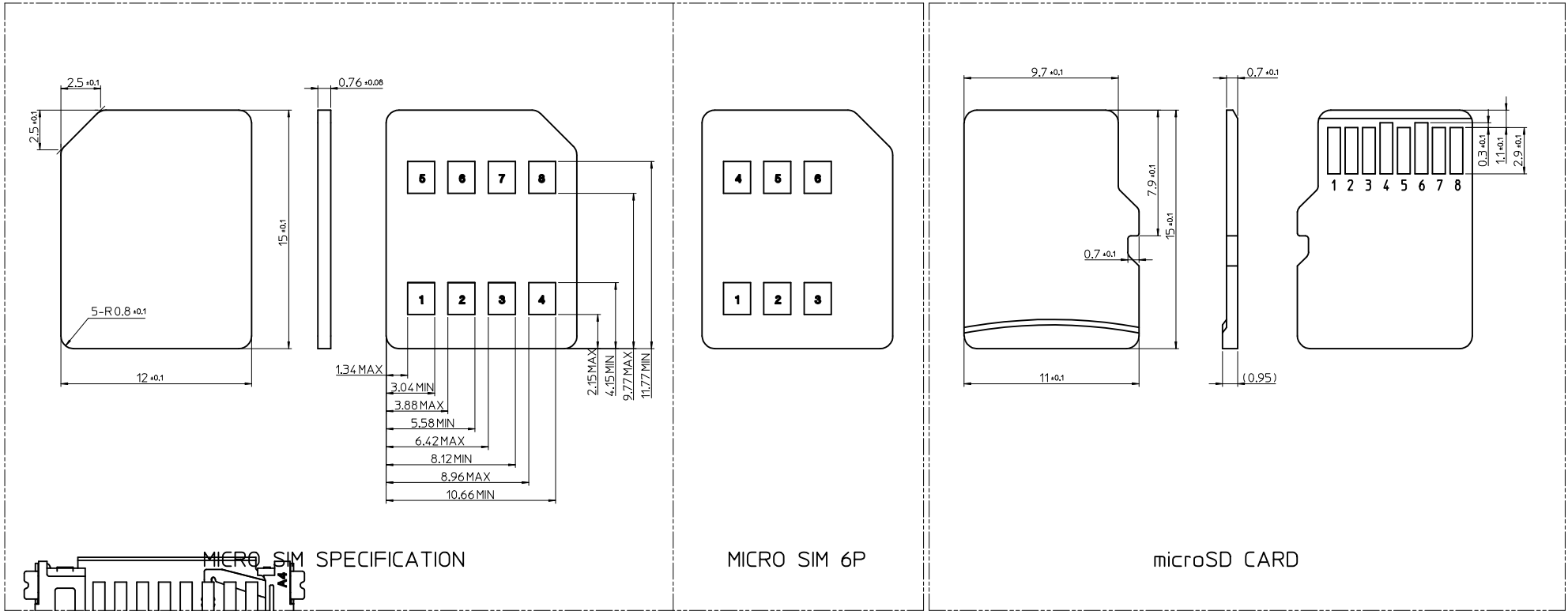


- 4. MATERIALS OF EMBOSSED CARRIER AND COVER TAPE : PET(POLYETHYLEN TEREPHTHALATE)



SEE SHEET1 EC NO: KOR2013-0041 DRWN: ICYANG 2012/10/24 CHKD: SHCHU 2012/10/24 APPR: YSKIM02 2013/02/04	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	2/1	METRIC	
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE			TITLE
		3 PLACES ± 0.12 ± ---	ICYANG 2012/03/31			COMBO 2.28H PUSH-PULL MICROSD/MICROSIM 8P/8P WITH DETECT SWITCH
		2 PLACES ± 0.12 ± ---	CHECKED BY DATE			molex
	1 PLACE ± 0.15 ± ---	SHCHU 2012/04/12				
	0 PLACE ± --- ± ---	APPROVED BY DATE			DOCUMENT NO.	SHEET NO.
		YSKIM02 2013/02/04			SD-104168-001	2 OF 3
		ANGULAR ± 1 °	MATERIAL NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE SHEET1			
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

REFERENCE DRAWING



[Reference Standards]
 -. microSD Card Addendum Version 3.0 Draft 0.8
 -. ETSI TS 102 221 V9.1.0, Smart Cards, UICC-Terminal interface, Physical and logical characteristics

SEE SHEET1 EC NO: KOR2013-0041 DRWN: ICYANG 2012/10/24 CHKD: SHCHU 2012/10/24 APPR: YSKIM02 2013/02/04	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 4/1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	▽=0	4 PLACES	± ---	± ---	DRAWN BY ICYANG	DATE 2012/03/31	TITLE COMBO 2.28H PUSH-PULL MICROSD/MICROSIM 8P/8P WITH DETECT SWITCH
	▽=0	3 PLACES	± 0.12	± ---	CHECKED BY SHCHU	DATE 2012/04/12	molex
		2 PLACES	± 0.12	± ---	APPROVED BY YSKIM02	DATE 2013/02/04	
	1 PLACE	± 0.15	± ---	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
	0 PLACE	± ---	± ---	ANGULAR ± 1 °	SEE SHEET1	SD-104168-001	3 OF 3
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		