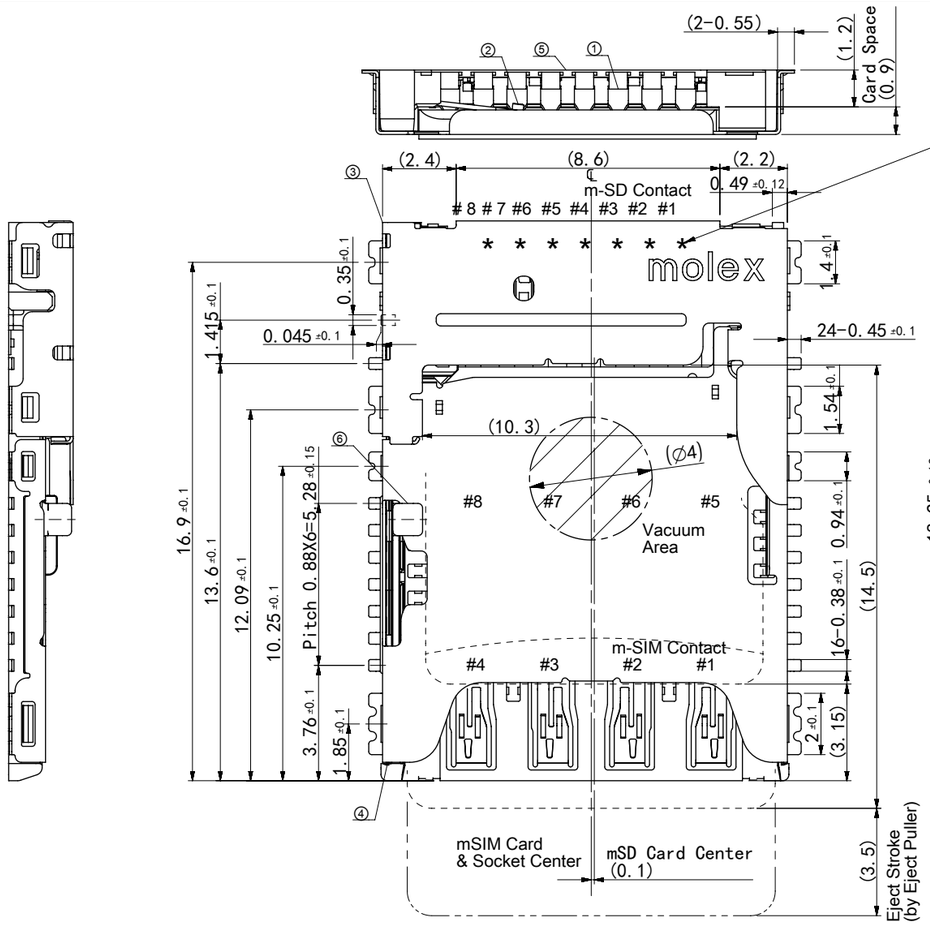
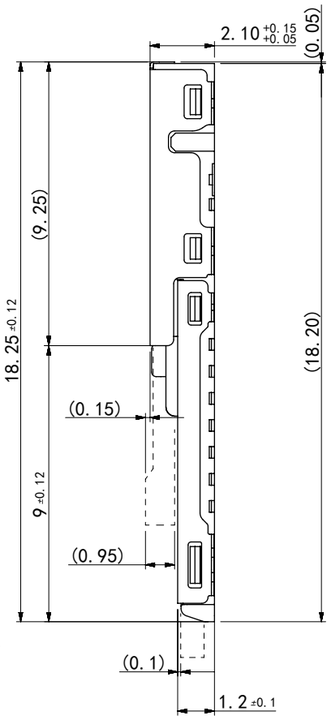
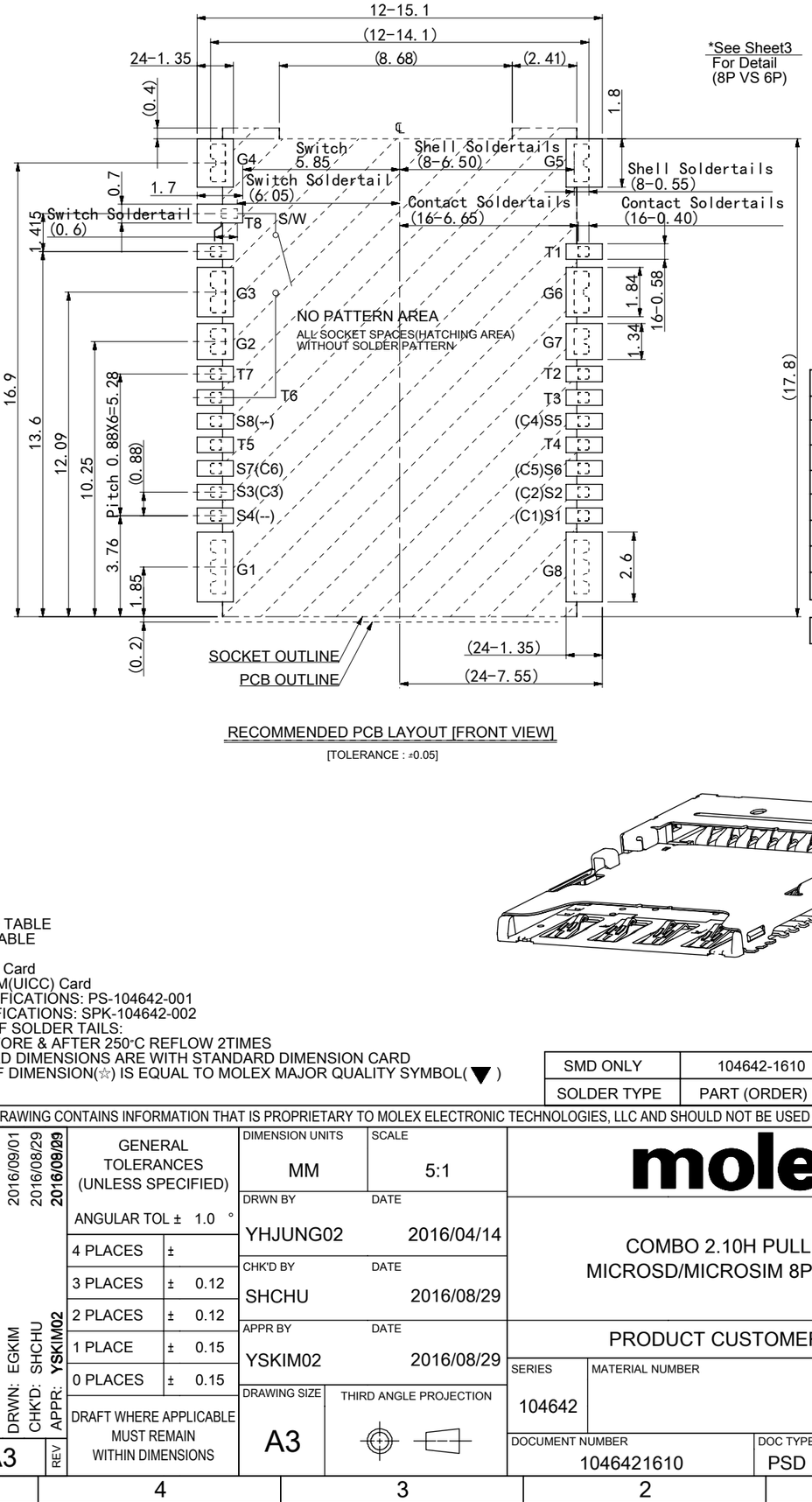


-DATE CODE-
example: M28154
M-> Molex initial
2-> Year(2012)
B-> Month(November) 1, ...9, A, B, C
15-> Date(15th)
A-> Site initial(Ansan)
1-> Manufacture line number





*See Sheet3
For Detail
(8P VS 6P)

RECOMMENDED PCB LAYOUT [FRONT VIEW]
[TOLERANCE : ±0.05]

[microSIM CARD PIN-MAP]

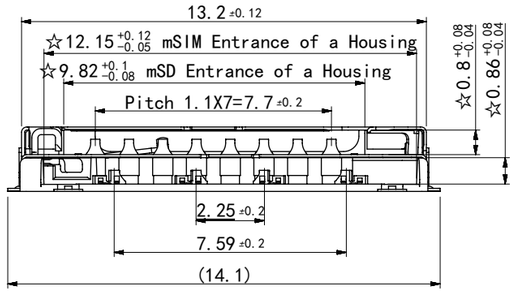
8P	6P	DESCRIPTION
S1	C1	Vcc(Supply V)
S2	C2	RST(Reset)
S3	C3	CLK(Clock)
S4	--	Reserved
S5	C4	GND
S6	C5	Vpp(Program V)
S7	C6	I/O
S8	--	Reserved

G1~G8	GND

[microSD CARD PIN-MAP]

PIN NO.	DESCRIPTION
T1	DAT2
T2	CD/DAT3[2]
T3	CMD
T4	Vdd
T5	CLK
T6	Vss(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: microSIM(UICC) Card
4. PRODUCT SPECIFICATIONS: PS-104642-001
5. PACKING SPECIFICATIONS: SPK-104642-002
6. COPLANARITY OF SOLDER TAILS:
   0.08mm MAX. BEFORE & AFTER 250°C REFLOW 2TIMES
7.REFERENCE CARD DIMENSIONS ARE WITH STANDARD DIMENSION CARD
8.CUSTOMER'S CTF DIMENSION(☆) IS EQUAL TO MOLEX MAJOR QUALITY SYMBOL(▼)

[Circuit diagram for Detection Switch of microSD card]

card insertion condition	card detect switch	Circuit mSD #6pin Switch terminal
Without Card	Open	
Card insertion	Close	

NO.	PARTS NAME	MATERIALS	FINISHES
1	CONTACT TERMINAL (16P)	COPPER ALLOY	CONTACT mSIM: GOLD 0.05μm MIN. OVER Pd-Ni 0.3μm MIN. CONTACT mSD: GOLD 0.05μm MIN. Pd-Ni 0.2μm MIN. SWITCH: GOLD 0.1μm MIN. (Pd-Ni IS PALLADIUM NICKEL) SOLDERS: GOLD 0.05μm MIN. BASE: NICKEL 1.27 MIN.
2	SWITCH TERMINAL	PHOSPHOR BRONZE	
3	microSD SHELL	STAINLESS STEEL	BRIGHT NICKEL 1.27μm MIN.
4	microSIM SHELL	STAINLESS STEEL	BRIGHT NICKEL 1.27μm MIN.
5	HOUSING	LIQUID CRYSTAL POLYMER	NATURAL(IVORY) COLOR, UL94V-0
6	EJECT PULLER	STAINLESS STEEL	NONE

RELEASE STATUS | P1 | RELEASE DATE | 01.09.2016 23:51:41

SMD ONLY	104642-1610	1046421610
SOLDER TYPE	PART (ORDER) NO.	MATERIAL NO.

QUALITY SYMBOLS
FA = 0
FC = 0
FP = 0
▼ = 1
C = 0
☒ = 0
■ = 0
V = 0

REDRAWN 2016/09/01
EC NO: 107531 2016/08/29
DRWN: EGKIM 2016/08/09
CHK'D: SHCHU
APPR: YSKIM02

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °

4 PLACES	±	
3 PLACES	±	0.12
2 PLACES	±	0.12
1 PLACE	±	0.15
0 PLACES	±	0.15

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

A3 REV

DIMENSION UNITS: MM
SCALE: 5:1
DRWN BY: YHJUNG02
DATE: 2016/04/14
CHK'D BY: SHCHU
DATE: 2016/08/29
APPR BY: YSKIM02
DATE: 2016/08/29
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

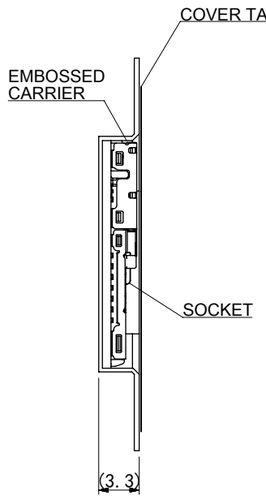
molex®

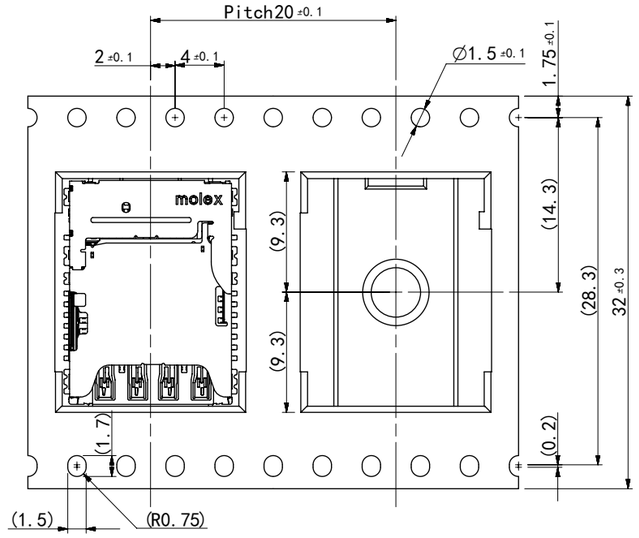
COMBO 2.10H PULLER TYPE
MICROSD/MICROSIM 8P/8P WITH S/W

PRODUCT CUSTOMER DRAWING

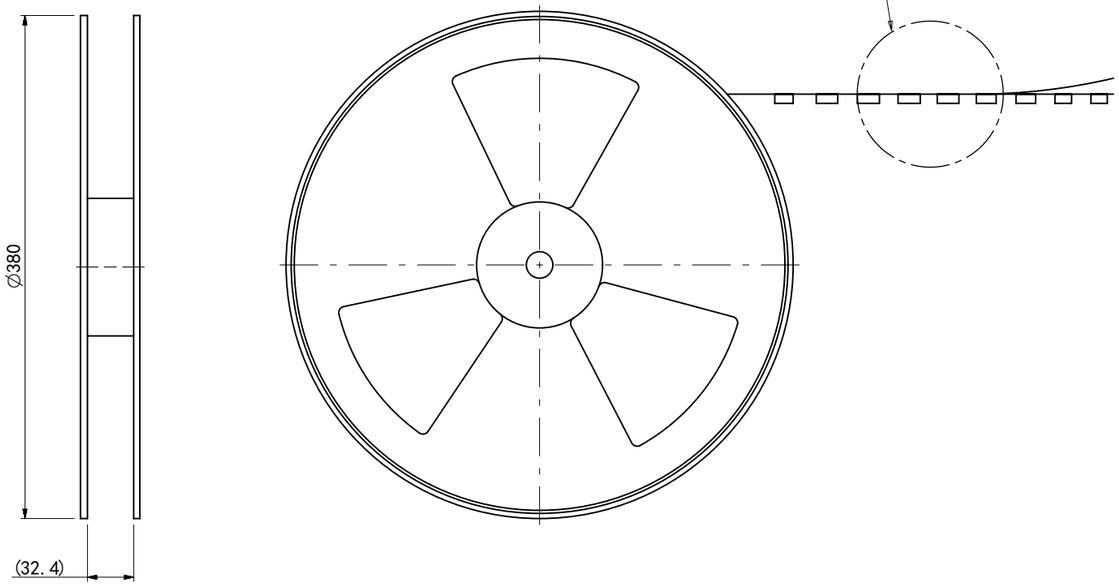
SERIES	MATERIAL NUMBER	CUSTOMER
104642		GENERAL

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1046421610	PSD	000	1 OF 3





TOP VIEW OF EMBOSSED CARRIER

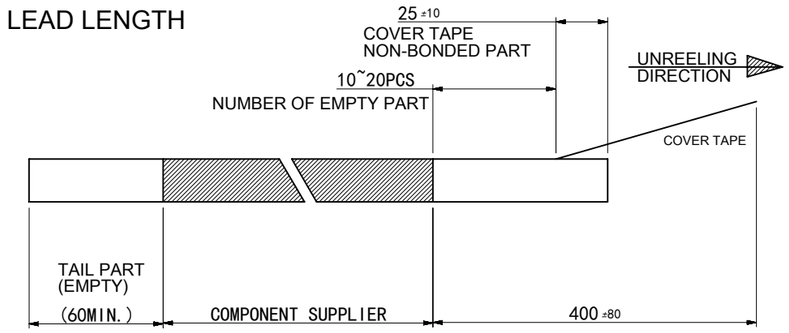


UNREELING OF PRODUCTS DIRECTION

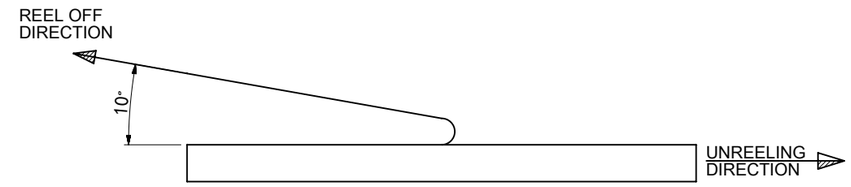
NOTES

⚠A1 1. QUANTITY OF PRODUCTS: 1,500 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)

QUALITY SYMBOLS	
FA	= 0
EC	= 0
EP	= 0
▼	= 0
C	= 0
☒	= 0
■	= 0
V	= 0

REDRAWN 2016/09/01
EC NO: 107531 DRWN: EGKIM 2016/08/29 CHK'D: SHCHU 2016/08/29 APPR: YSKIM02 2016/08/29

A3 REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES	±
3 PLACES	± 0.12
2 PLACES	± 0.12
1 PLACE	± 0.15
0 PLACES	± 0.15

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	SCALE
MM	2:1
DRWN BY: YHJUNG02	DATE: 2016/04/14
CHK'D BY: SHCHU	DATE: 2016/08/29
APPR BY: YSKIM02	DATE: 2016/08/29
DRAWING SIZE: A3	THIRD ANGLE PROJECTION

molex®

COMBO 2.10H PULLER TYPE
MICROSD/MICROSIM 8P/8P WITH S/W

PRODUCT CUSTOMER DRAWING

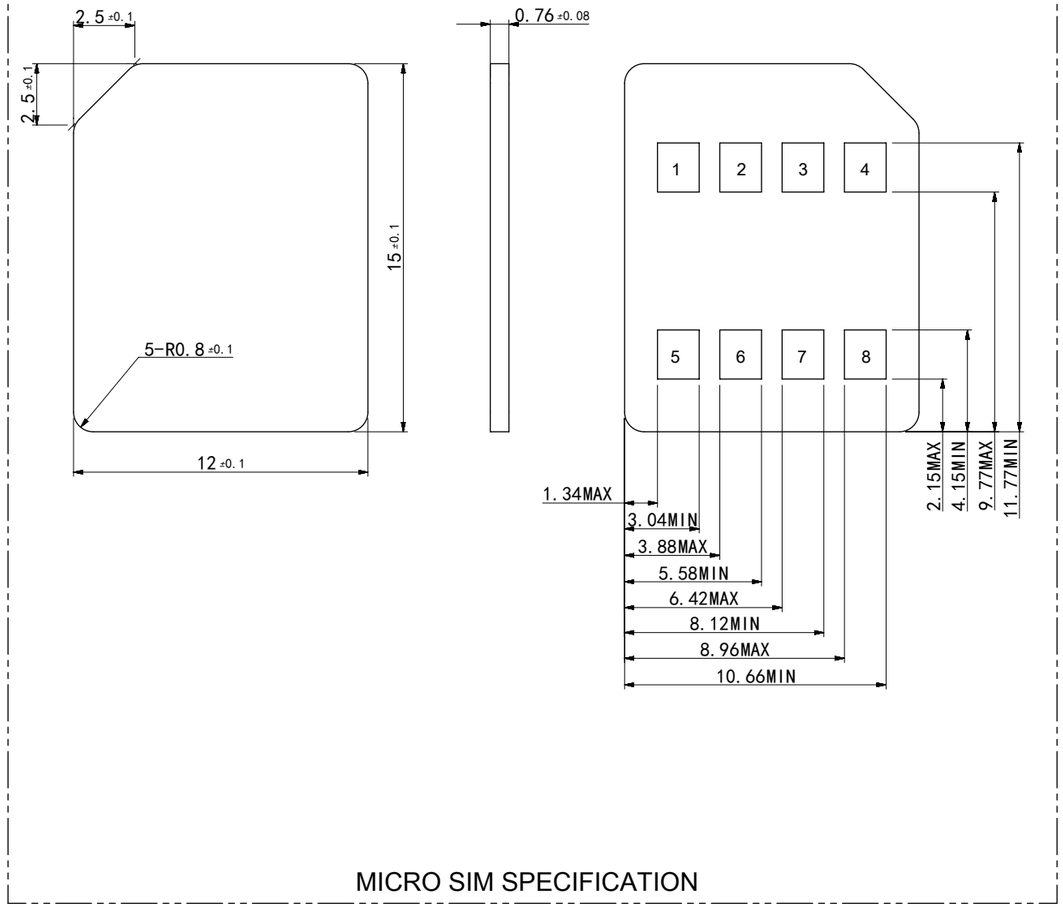
SERIES	MATERIAL NUMBER	CUSTOMER
104642	SEE SHEET1	GENERAL

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1046421610	PSD	000	2 OF 3

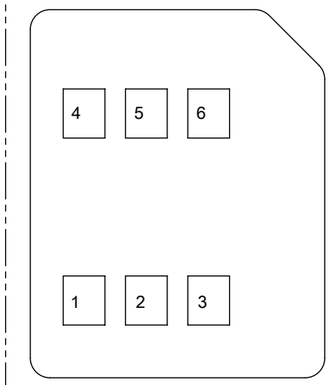
RELEASE STATUS	P1	RELEASE DATE	01.09.2016 23:51:41

FORMAT: master-tb-prod-A3
REVISION: G
DATE: 2015/12/14

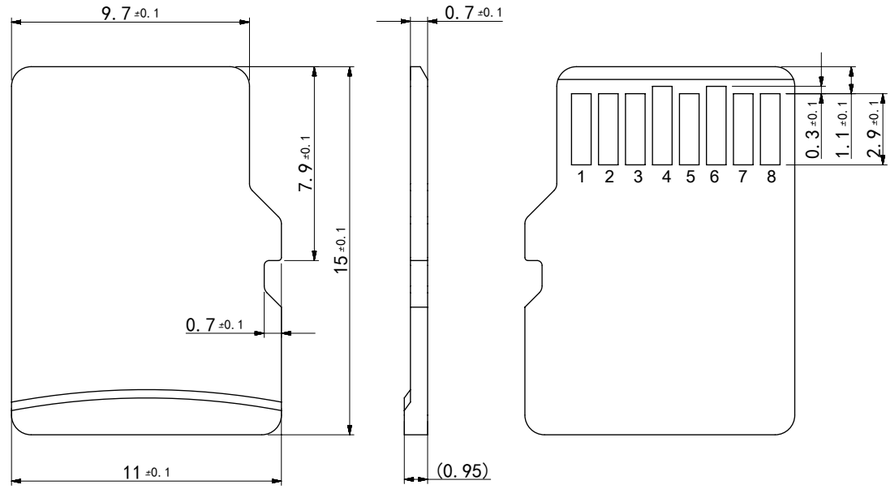
REFERENCE DRAWING



MICRO SIM SPECIFICATION



MICRO SIM 6P



micro SD CARD

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

QUALITY SYMBOLS	
FA	= 0
FC	= 0
FP	= 0
▼	= 0
C	= 0
☒	= 0
■	= 0
C	= 0

REDRAWN
2016/09/01
2016/08/29
2016/09/29
EC NO: 107531
DRWN: EGKIM
CHK'D: SHCHU
APPR: YSKIM02

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL ± 1.0 °	
4 PLACES	±
3 PLACES	± 0.12
2 PLACES	± 0.12
1 PLACE	± 0.15
0 PLACES	± 0.15

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS	MM
SCALE	4:1
DRWN BY	YHJUNG02
DATE	2016/04/14
CHK'D BY	SHCHU
DATE	2016/08/29
APPR BY	YSKIM02
DATE	2016/08/29
DRAWING SIZE	A3
THIRD ANGLE PROJECTION	

molex®

COMBO 2.10H PULLER TYPE
MICROSD/MICROSIM 8P/8P WITH S/W

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
104642	SEE SHEET1	GENERAL

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1046421610	PSD	000	3 OF 3

A3 REV

RELEASE STATUS	P1	RELEASE DATE	01.09.2016 23:51:41

FORMAT: master-tb-prod-A3
REVISION: G
DATE: 2015/12/14