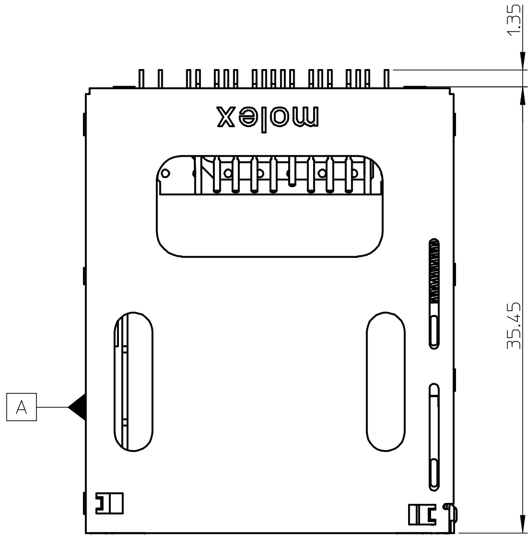
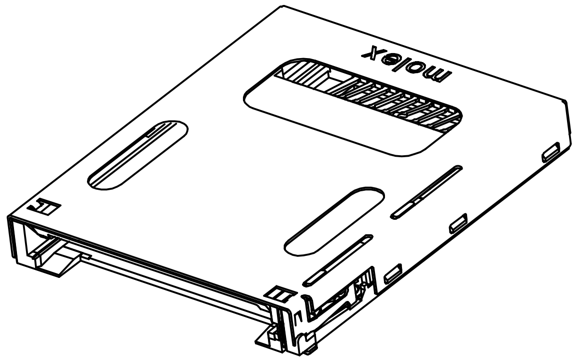
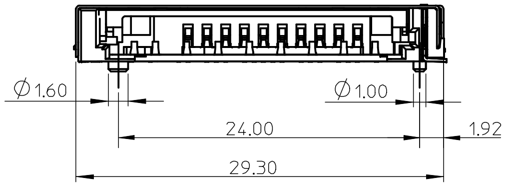
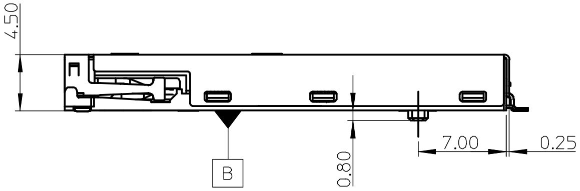
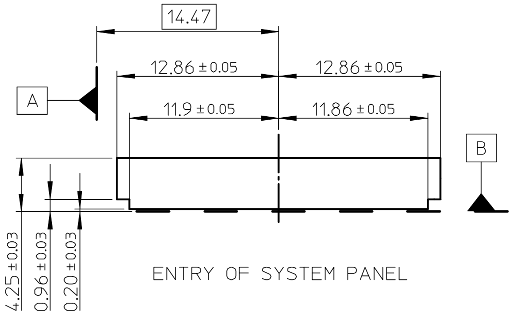










NOTE:

1.MATERIALS:

HOUSING: HIGH TEMPERATURE THERMOPLASTIC, BLACK, UL94 V-0.

TERMINAL : NAIL AND SWITCH: COPPER ALLOY.

METAL SHELL: STAINLESS STEEL

2.FINISH:

TERMINAL: NICKEL OVERALL UNDERPLATING,
THICKNESS : 1.27 MICROMETER MIN.
SELECTIVE GOLD ON CONTACT AREA,
THICKNESS : 0.2 MICROMETER MIN.
TIN ALLOY ON SOLDER AREA.
THICKNESS : 3 MICROMETER MIN.

SWITCH: NICKEL OVERALL UNDERPLATING,
THICKNESS : 1.27 MICROMETER MIN.
SELECTIVE GOLD ON CONTACT AREA,
THICKNESS : 0.05 MICROMETER MIN.
TIN ALLOY ON SOLDER AREA.
THICKNESS : 3 MICROMETER MIN.

NAIL: NICKEL OVERALL UNDERPLATING,
THICKNESS : 1.27 MICROMETER MIN.
TIN ALLOY ,THICKNESS : 3 MICROMETER MIN.
ON SOLDER AREA

3.COPLANARITY: 0.15 MAX.

4.PRODUCT SPECIFICATION: PS-48000-001

5.PACKAGING: PK-48000-001

6.PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV 2000/53/EC.

UPDATE DRAWING 2008/08/14
EC NO:
DRWN:LSONG09
CH'KD:
APPR:
D
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY	
DRAWN BY	FOX.WU	DATE 2003/09/04
CHECKED BY	W.CHANG	DATE 2003/09/05
APPROVED BY	E.LAN	DATE 2003/09/05
MATERIAL NO.	480002001	

SCALE 1:1
DESIGN UNITS METRIC
THIRD ANGLE PROJECTION

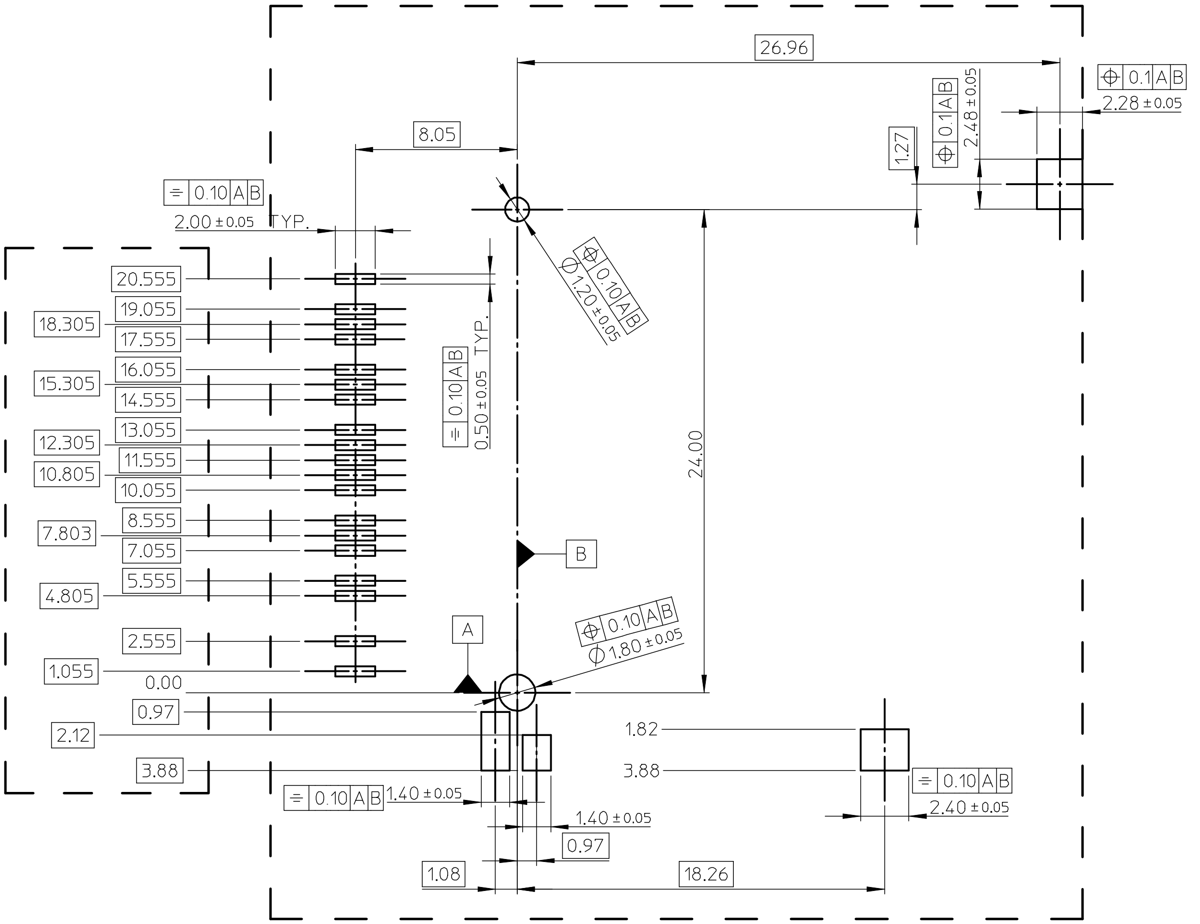
TITLE

3 IN 1 MEMORY COMBO CONNECTOR PUSH PUSH TYPE

MOLEX INCORPORATED

DOCUMENT NO. SD-48000-201
SHEET NO. 1 OF 5
SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



FOOT PRINT

RECOMMENDED PCB THICKNESS : 1.0 mm

UPDATE DRAWING
EC NO: SH2009-0083
DRWN:LSONG09 2008/08/14
CH'KD:
APPR:
D
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

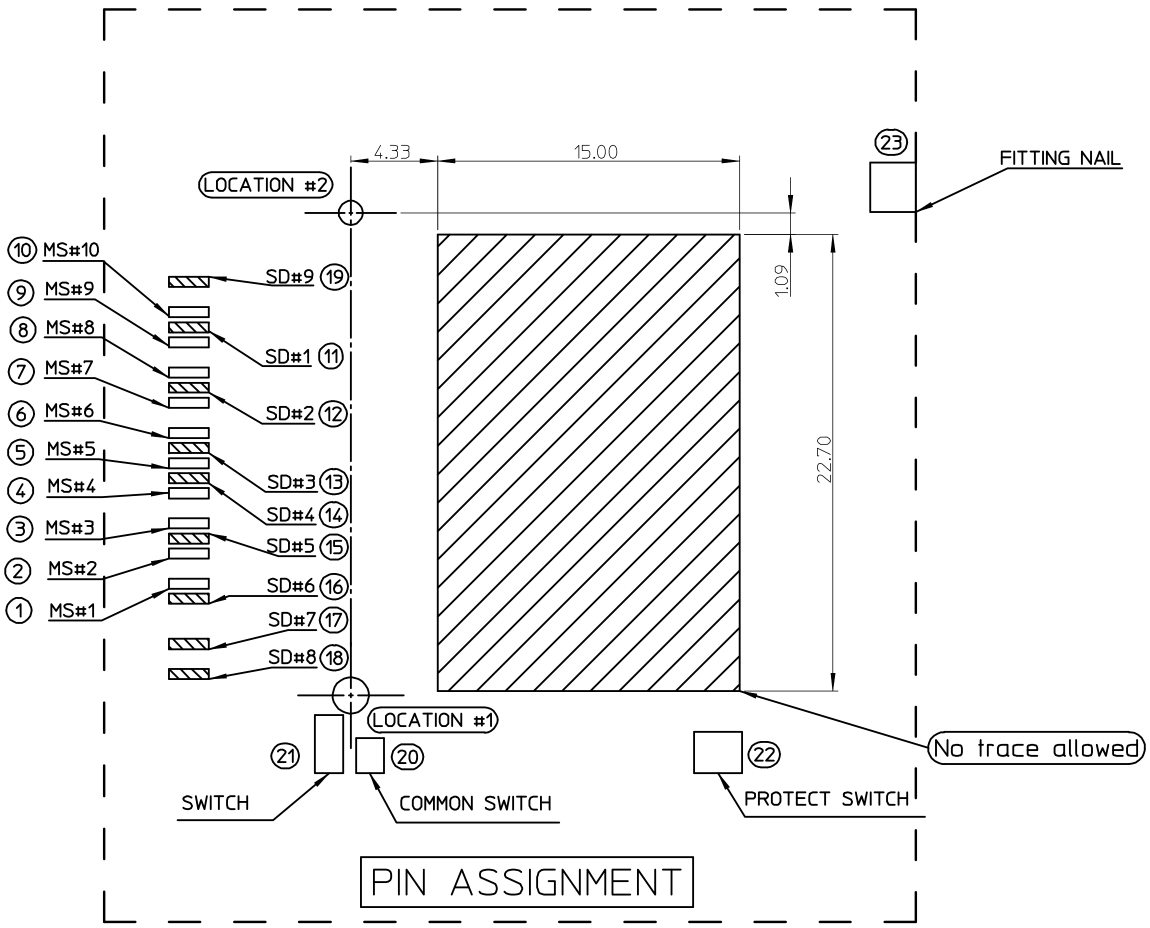
DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	FOX.WU	2003/09/04
CHECKED BY	W.CHANG	2003/09/05
APPROVED BY	E.LAN	2003/09/05

TITLE
3 IN 1 MEMORY
COMBO CONNECTOR
PUSH PUSH TYPE

molex MOLEX INCORPORATED

MATERIAL NO. 480002001
DOCUMENT NO. SD-48000-201
SHEET NO. 2 OF 5
SIZE A3



PIN ASSIGNMENT

SD CARD CIRCUIT

================

WITHOUT CARD

#21 SW 0-- --0 #20 GND

#22 WP 0-- --0 #20 GND

==============================

CARD INSERTED

WRITE PROTECT LOCK

#21 SW 0-------0 #20 GND

#22 WP 0-- --0 #20 GND

==============================

CARD INSERTED

WRITE PROTECT UNLOCK

#21 SW 0-------0 #20 GND

#22 WP 0-------0 #20 GND

THE SD CARD CONTACTS ARE CONTACTED IN THREE STEPS :

1. GROUND VSS (PIN3) AND SUPPLY VOLTAGE VDD (PIN4).
2. CLK,CMD,DAT0,DAT1,DAT2 AND VSS (PIN6)
3. CD/DAT3 (PIN1)

1	MS-1P (Vss)	15	SD-5P (CLK)
2	MS-2P (BS)	16	SD-6P (Vss)
3	MS-3P (DATA1)	17	SD-7P (DAT0)
4	MS-4P (SDIO/DATA0)	18	SD-8P (DAT1)
5	MS-5P (DATA2)	19	SD-9P (DAT2)
6	MS-6P (INS)	20	SD-SW (GND)
7	MS-7P (DATA3)	21	SW (RSV)
8	MS-8P (SCLK)	22	SD-SW (WP)
9	MS-9P (Vcc)	23	FITTING NAIL
10	MS-10P (Vss)		
11	SD-1P (CD/DAT3)		
12	SD-2P (CMD)		
13	SD-3P (Vss)		
14	SD-4P (Vdd)		

REV	DESCRIPTION
D	UPDATE DRAWING 2008/08/14 EC NO: DRWN:LSONG09 CH'KD: APPR:

QUALITY SYMBOLS
▼=0
▽(C)=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

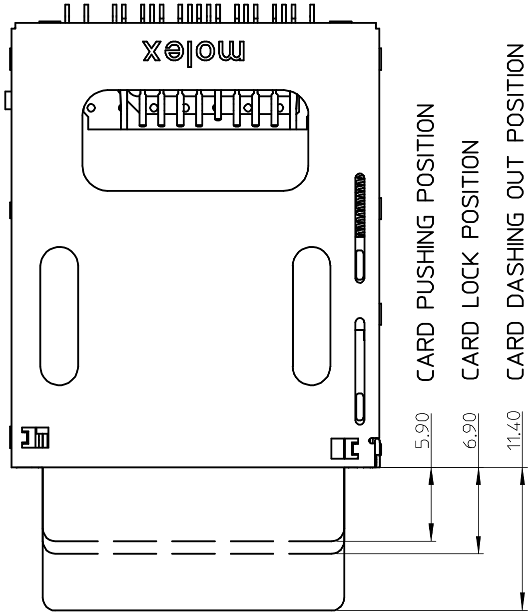
DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: FOX.WU DATE: 2003/09/04
CHECKED BY: W.CHANG DATE: 2003/09/05
APPROVED BY: E.LAN DATE: 2003/09/05

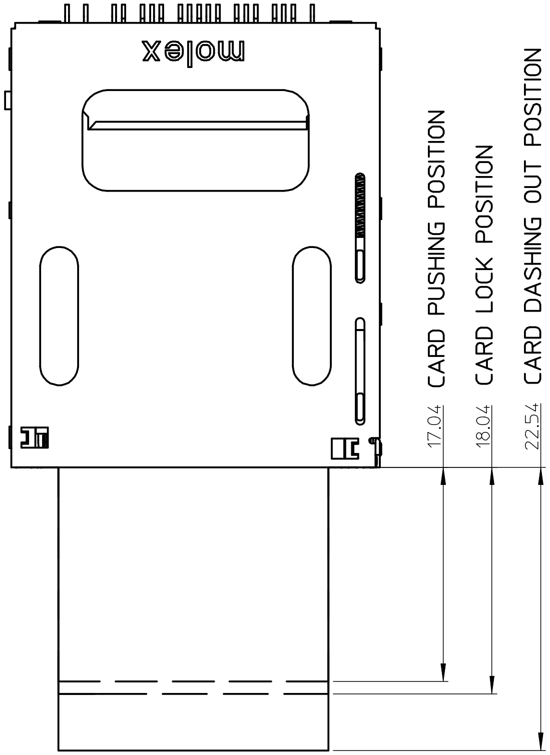
TITLE: 3 IN 1 MEMORY COMBO CONNECTOR PUSH PUSH TYPE

molex MOLEX INCORPORATED

MATERIAL NO. 480002001
DOCUMENT NO. SD-48000-201
SHEET NO. 3 OF 5
SIZE A3



MMC/SD card



MS card

UPDATE DRAWING
EC NO: SH2009-0083 2008/08/14
DRWN:LSONG09
CH'KD:
APPR:
DESCRIPTION
D
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

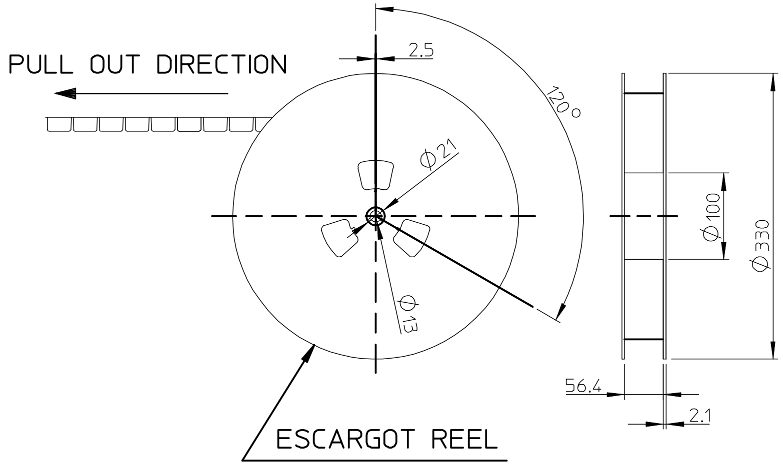
DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	FOX.WU	2003/09/04
CHECKED BY	W.CHANG	2003/09/05
APPROVED BY	E.LAN	2003/09/05

TITLE
3 IN 1 MEMORY
COMBO CONNECTOR
PUSH PUSH TYPE

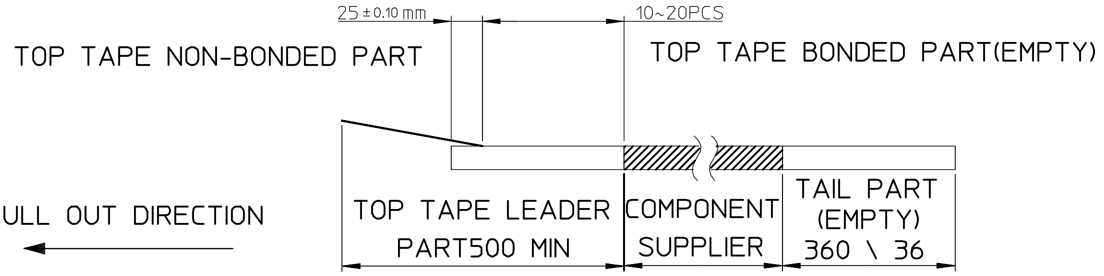
molex MOLEX INCORPORATED

MATERIAL NO. 480002001
DOCUMENT NO. SD-48000-201
SHEET NO. 4 OF 5
SIZE A3

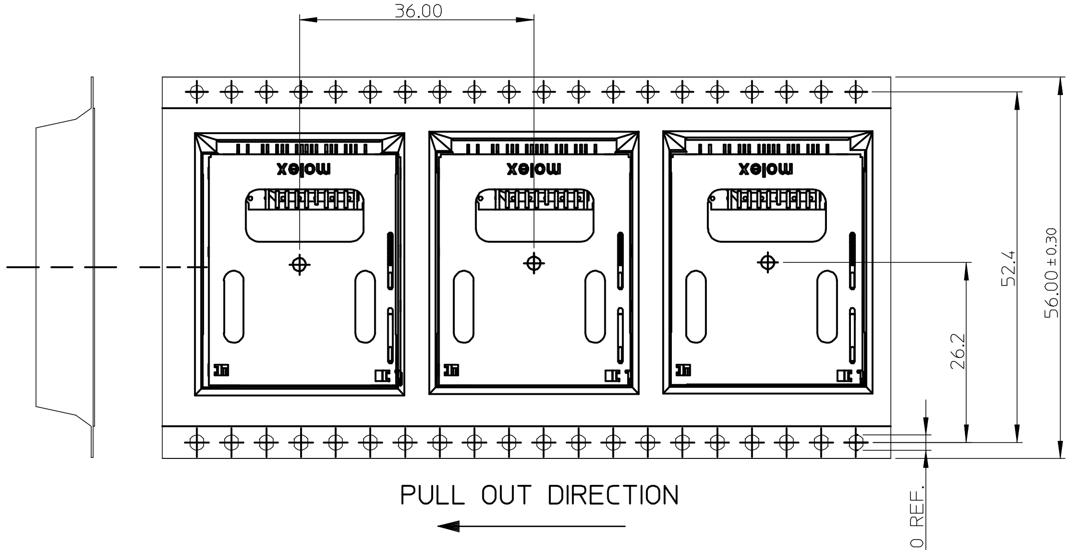


NOTES

1. NUMBER OF CONNECTORS:250 PCS/REEL

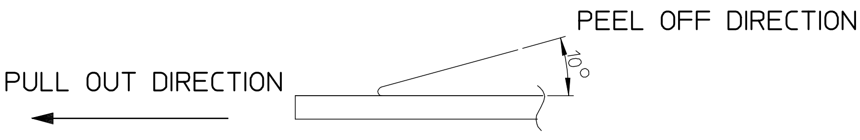


PULL OUT DIRECTION ←



DIRECTION OF CONNECTOR IN EMBOSSED TAPE

3. PEEL OFF FORCE OF TOP TAPE: 0.1~1.3 N (10.2~130gf)
PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
(PEEL OFF SPEED: 300mm/min.REF.)



4. PACKAGING DRAWING REFERS TO PK-48000-001

REV	DESCRIPTION
D	UPDATE DRAWING EC NO: SH2009-0083 2008/08/14 DRWN:LSONG09 CH'KD:XJSONG APPR:HWWANG

QUALITY SYMBOLS
▼=0
∇=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: 1:1	DESIGN UNITS: METRIC
DRAWN BY: FOX.WU	DATE: 2003/09/04	TITLE: 3 IN 1 MEMORY COMBO CONNECTOR PUSH PUSH TYPE
CHECKED BY: W.CHANG	DATE: 2003/09/05	
APPROVED BY: E.LAN	DATE: 2003/09/05	MOLEX INCORPORATED
MATERIAL NO.: 480002001	DOCUMENT NO.: SD-48000-201	SHEET NO.: 5 OF 5
SIZE: A3		

THIRD ANGLE PROJECTION

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION