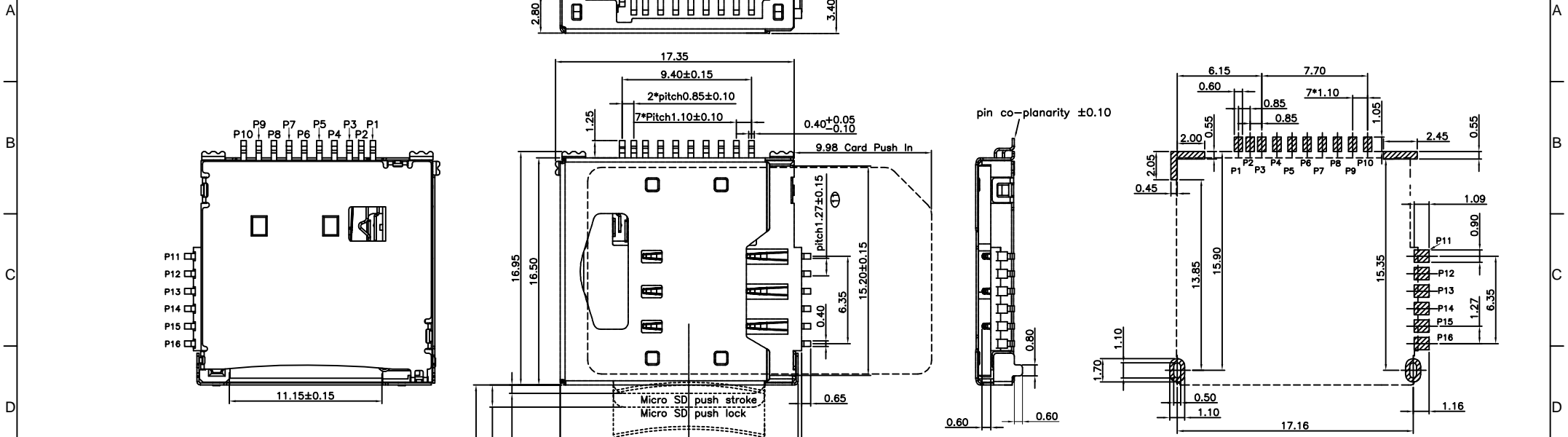


Global Connector Technology Ltd. - MES3050: 2in1 Combo Connector, MicroSD Memory Card, Push-Push, Reverse Entry/SIM Card, Push-Pull, SMT, 3.40mm Profile, With Locating Post



SPECIFICATION 规格:

MATERIAL 物料规格:
 PLASTIC HOUSING 塑胶外壳: LCP, THERMOPLASTIC UL94V-0, BLACK 高温塑胶, 黑色
 CONTACT TERMINAL 接触端子: PHOSPHOR BRONZE (CR5210-EH), T=0.15MM 磷青铜
 METALLIC SHELL 金属外壳: STAINLESS STEEL (SUS304R-H) 不锈钢

PLATING 电镀规格:
 CONTACT TERMINAL PLATING 接触端子部分电镀:
 SIM:
 UNDER-PLATING: 50U" NICKEL MIN. 底层电镀最少50U"
 CONTACT AREA 接触部分: 10U" GOLD FLASH 镀闪金10U"
 SOLDERING AREA 焊接部分: GOLD FLASH 镀闪金

MICRO SD:
 UNDER-PLATING: 50U" NICKEL MIN. 底层电镀最少50U"
 CONTACT AREA 接触部分: 3U" GOLD FLASH 镀闪金3U"
 SOLDERING AREA 焊接部分: GOLD FLASH 镀闪金

METALLIC SHELL PLATING 金属外壳电镀:
 UNDER-PLATING 底层电镀: 50U" NICKEL MIN. 底层电镀最少50U"
 SOLDERING AREA 焊接部分: GOLD FLASH 镀闪金
 SOLDER TAIL CO-PLANARITY 焊接末端同平面度: 0.1MM MAX.

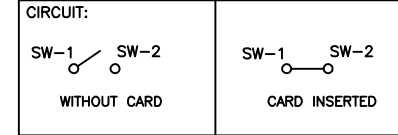
ELECTRICAL 电气规格:
 VOLTAGE RATING 电压额定值: 100 VAC (R.M.S.)
 CURRENT RATING 电流额定值: 0.5 A DC
 OPERATING TEMPERATURE 工作温度: -30°C TO +80°C
 CONTACT RESISTANCE 接触电阻值: 40mΩ MAX.
 INSULATION RESISTANCE 绝缘电阻值: 1000MΩ MIN. (APPLY 施加250VDC)
 DIELECTRIC WITHSTANDING VOLTAGE 耐电压: LEAKAGE CURRENT 漏电流 < 0.5mA (APPLY 500VAC FOR 1 MIN; 施加 500VAC 共一分钟)

MECHANICAL 机械性规格:
 DURABILITY 耐久性: 5000 CYCLES 5000 次插拔
 CONTACT RETENTION FORCE 接触保持力: 50GF/PIN MIN.
 CONTACT NORMAL FORCE 垂直接触力:
 SIM: 80GF/PIN MIN.
 MICRO SD: 40GF/PIN MIN.
 INSERTION FORCE 插入力:
 SIM: 0.15KGF/PIN MIN.
 MICRO SD: 0.2KGF/PIN MIN.

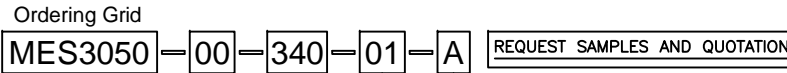
By	PN	PN	ADS	PN	SA
DETAIL	DRAWING RELEASE	ECN070913A	ECN070998A	UPDATED PCB LAYOUT	PACK QTY UPDATE
REV DATE	A	B	C	D	E
	23/08/07	13/09/07	29/09/07	22/04/09	28/06/10

RECOMMENDED PCB LAYOUT
 GENERAL TOLERANCE: ± 0.05
 AS VIEWED FROM COMPONENT SIDE

Card Detect Switch Circuit:



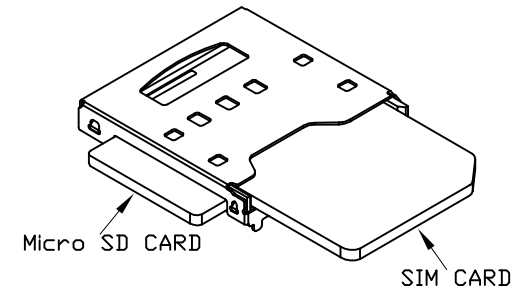
Solder Area
 Component Outline



Switch
 00 = Normally Open

01 = With Locating Post

Packing Options
 A = Tape & Reel
 (Quantity per Reel: 500 pcs)



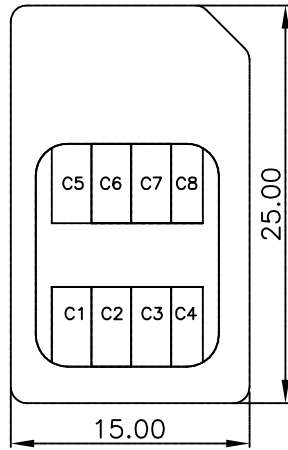
Tolerances (Except as noted)	Part Number:-	Date:-
Dimensions in mm X.X ± 0.20 X. ² $\pm 1^{\circ}$ X.XX ± 0.15 X.X ² $\pm 0.5^{\circ}$ X.XXX ± 0.05 X.XX ² $\pm 0.25^{\circ}$	MES3050	23 AUG 07
	Description:-	
	2 IN 1 COMBO CONNECTOR, MICRO SD MEMORY CARD, PUSH-PUSH, REVERSE ENTRY/SIM CARD, PUSH-PULL, SMT, 3.40MM PROFILE, WITH LOCATING POST	
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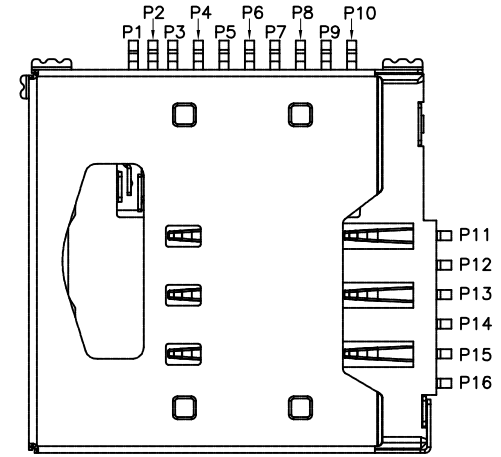
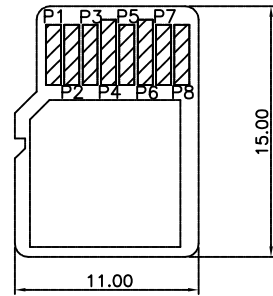
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Scale	Revision	Material	Drawn by	Sheet No.
NTS	E	See Note	PKN	1/3
			E & OE	

SIM CARD



MICRO SD CARD



SIM CARD PIN OUT

Pin	Name	Description
C1	VCC	+5v or 3.3v DC
C2	RST	Card Reset (Optional)
C3	CLK	Card Clock
C4	RFU	Reserved for Future Use
C5	GND	Ground
C6	VPP	+21v DC [Programming]
C7	I/O	In/Out [Data]
C8	RFU	Reserved for Future Use

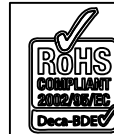
Micro SD CARD PIN OUT

Pin	Name	Description
P1	DAT2	Data Bit 2
P2	CD/DAT3	Card Detect/Data Bit 3
P3	CMD	Command Line
P4	V _{DD}	Supply Voltage 2.7v/3.6v
P5	CLK	Clock
P6	V _{SS}	Ground
P7	DAT0	Data Bit 0
P8	DAT1	Data Bit 1

COMBO CONNECTOR PIN ASSIGNMENT

PIN NO.	NAME	DESCRIPTION
P1	Card Detect Switch SW-1	SW-1 (Passive Switch)
P2	Card Detect Switch SW-2	SW-2 (Active Switch)
P3	Micro SD P1 (DAT2)	Data Bit 2
P4	Micro SD P2 (CD/DAT3)	Card Detect/Data Bit 3
P5	Micro SD P3 (CMD)	Command Line
P6	Micro SD P4 (VDD)	Supply Voltage 2.7v/3.6v
P7	Micro SD P5 (CLK)	Clock
P8	Micro SD P6 (VSS)	Ground
P9	Micro SD P7 (DAT0)	Data Bit 0
P10	Micro SD P8 (DAT1)	Data Bit 1
P11	Sim Card C7 (I/O)	In/Out [Data]
P12	Sim Card C3 (CLK)	Card Clock
P13	Sim Card C6 (VPP)	+21v DC
P14	Sim Card C2 (RST)	Card Reset
P15	Sim Card C5 (GND)	Ground
P16	Sim Card C1 (VCC)	+5v or 3.3v DC

By	PKN	PKN	ADS	PN	SA
DETAIL	DRAWING RELEASE	ECN070913A	ECN070998A	UPDATED PCB LAYOUT	PACK QTY UPDATE
REV DATE	A 23/08/07	B 13/09/07	C 29/09/07	D 22/04/09	E 28/06/10



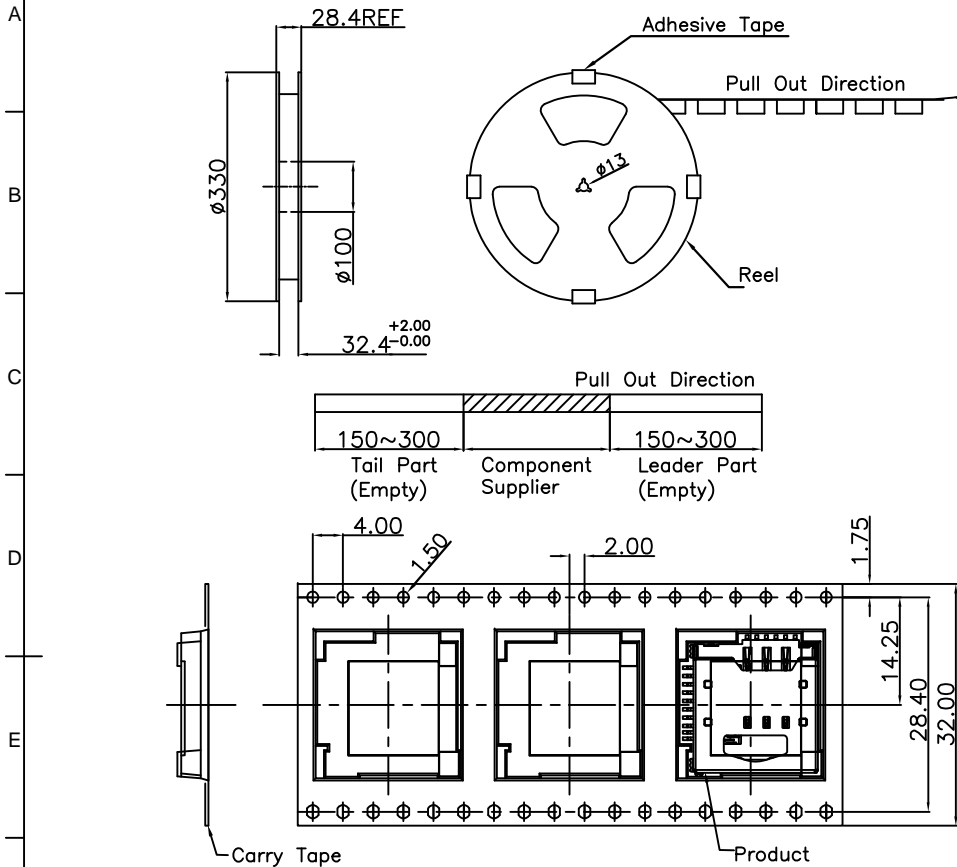
Tolerances (Except as noted)	Part Number:-	Date:-
Dimensions in mm	MES3050	23 AUG 07
X.X ± 0.20	X.° ± 1°	
X.XX ± 0.15	X.X° ± 0.5°	
X.XXX ± 0.05	X.XX° ± 0.25°	
	Description:-	
	2 IN 1 COMBO CONNECTOR, MICRO SD MEMORY CARD, PUSH-PUSH, REVERSE ENTRY/SIM CARD, PUSH-PULL, SMT, 3.40MM PROFILE, WITH LOCATING POST	
Third Angle Projection	© THIS DRAWING IS CONFIDENTIAL AND MUST NOT BE COPIED OR DISCLOSED WITHOUT WRITTEN CONSENT	

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Scale NTS	Revision E	Material See Note	Drawn by PKN	E & OE	Sheet No. 2/3
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Global Connector Technology Ltd. - MES3050: 2in1 Combo Connector, MicroSD Memory Card, Push-Push, Reverse Entry/SIM Card, Push-Pull, SMT, 3.40mm Profile, With Locating Post



NOTE 注意:

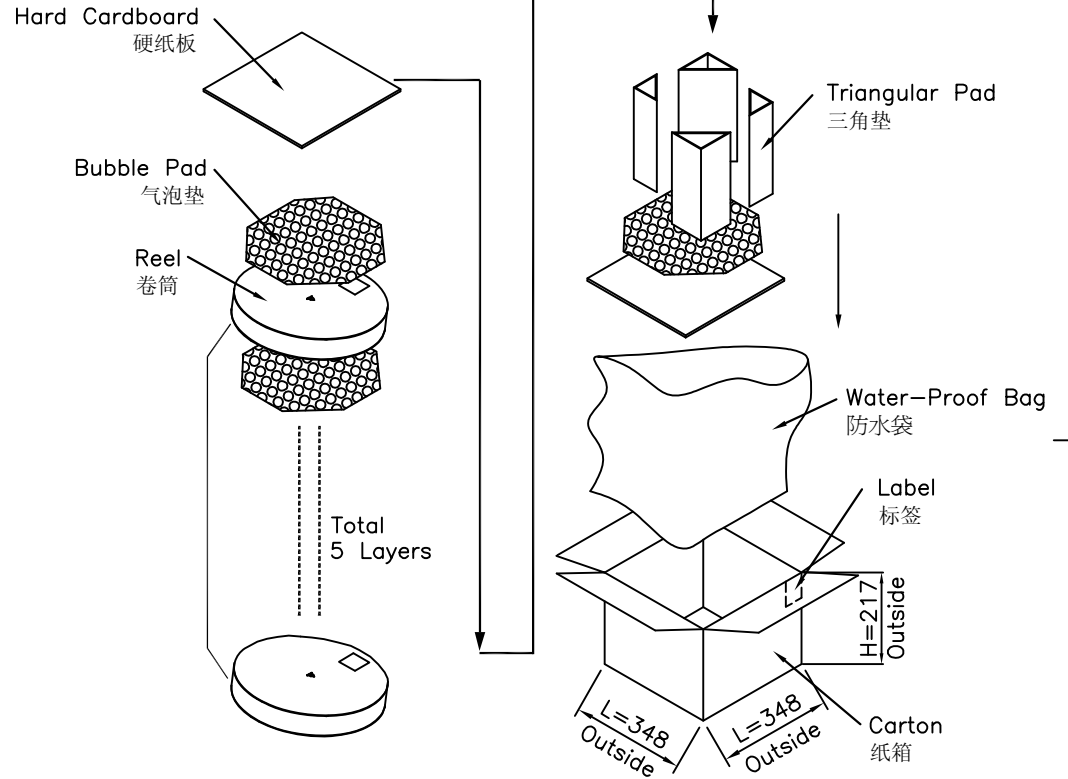
1. 150-300mm of the leading & tail of the CARRY TAPE will not be used
前部分与尾部分各留出150~300mm长度不装产品

2. Each Cavity holds 1pc. of Product. Placement methods as shown in the diagram
每穴放置1PC产品, 放置位置如图所示

3. After the packing machine finished packing, stick adhesive tape on the end.
At the four quadrants of the REEL, stick on the adhesive tape to avoid out-spreading of the REEL.
On each REEL, stick 1pc. of label.
包装机包好后尾端贴上胶带, 在REEL的四个等分上贴上胶带, 以防止REEL张开, 每REEL贴1PC标签

4. Place a big water-proof bag at the bottom of the carton, then 1pcs. of hard card-board, and 1pcs. of bubble-pad on top, around the four sides, stuff with the triangular pad, then place those filled REEL into the carton, between each REEL there will be 1pc of bubble-pad as separator, accordingly place all 5 REELS into the carton, on the top place 1pc of bubble-pad & 1 hard card-board, lastly close the carton with adhesive tapes.

在纸箱底部套入大防水袋, 再垫上1PC硬纸板, 再垫上1PC气泡垫, 四周垫上三角垫, 然后把装好产品的REEL放置在纸箱中, 每REEL之间间隔1PC气泡垫, 依次把5REEL产品放到纸箱中, 在上面垫上1PC气泡垫和硬纸板, 最后用胶带封箱



By	PKN	PKN	ADS	PN	SA
DETAIL	DRAWING RELEASE	ECN070913A	ECN070998A	UPDATED PCB LAYOUT	PACK QTY UPDATE
REV DATE	A 23/08/07	B 13/09/07	C 29/09/07	D 22/04/09	E 28/06/10



Tolerances (Except as noted)	Part Number:- MES3050	Date:- 23 AUG 07
Dimensions in mm	Description:- 2 IN 1 COMBO CONNECTOR, MICRO SD MEMORY CARD, PUSH-PUSH, REVERSE ENTRY/SIM CARD, PUSH-PULL, SMT, 3.40MM PROFILE, WITH LOCATING POST	
Third Angle Projection	© THIS DRAWING IS CONFIDENTIAL AND MUST NOT BE COPIED OR DISCLOSED WITHOUT WRITTEN CONSENT	

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Scale NTS	Revision E	Material See Note	Drawn by PKN	E & OE	Sheet No. 3/3	