

REV.	ECN NO	DESCRIPTION	DATE	DRAW	APPR
A		NEW			

SPECIFICATION

1.MATERIAL:

HOUSING:HIGH TEMPERATURE THERMOPLASTIC
UL 94V-0 , COLOR:BLACK

CONTACT:COPPER ALLOY

COVER:COPPER ALLOY

2.PLATING:

UNDERPLATE:NICKEL

CONTACT AREA:GOLD OVER NICKEL

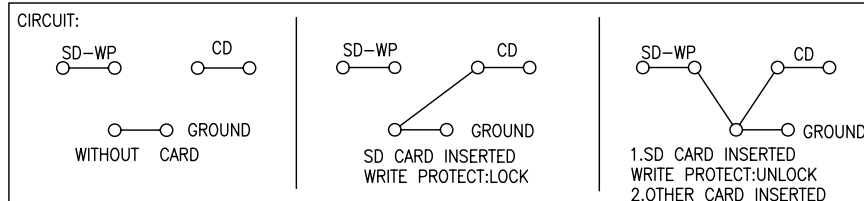
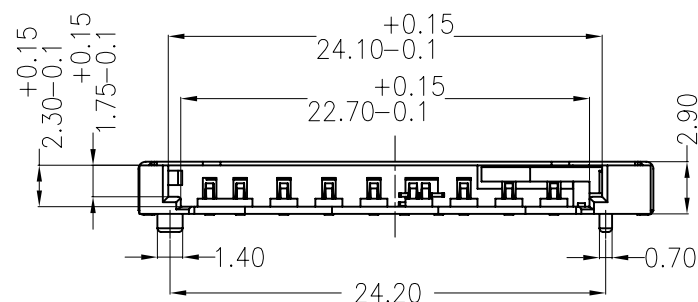
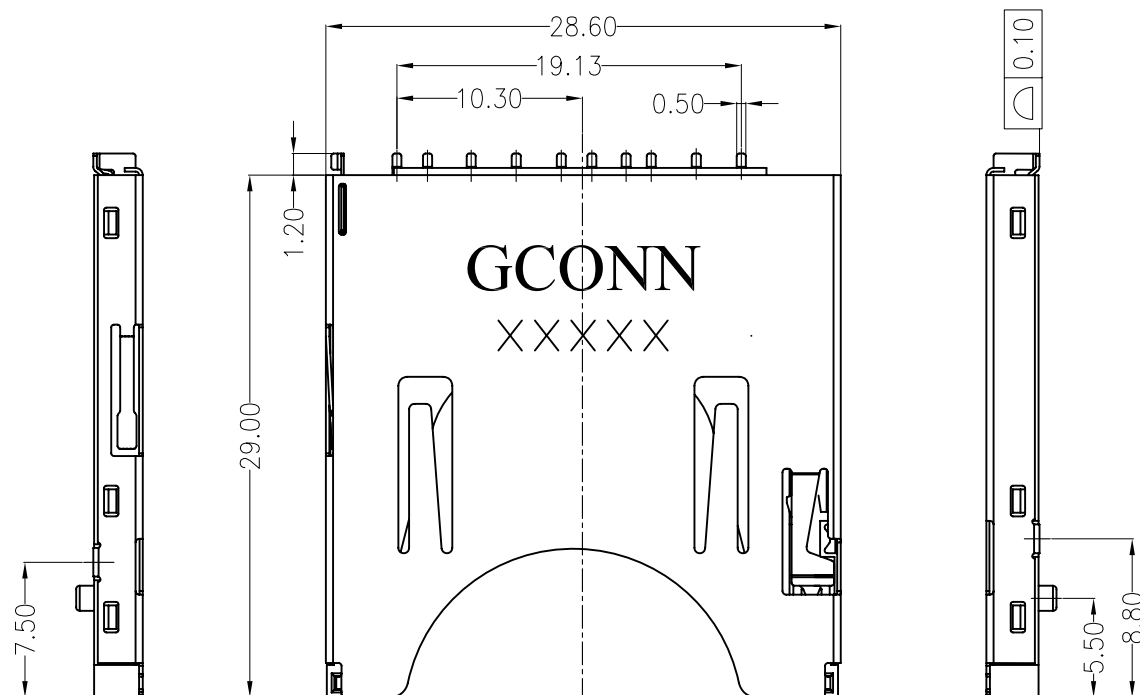
SOLDER AREA:TIN PLATING OVER NICKEL(LEAD FREE).

3.COPLANARITY MUST BE WITHIN 0.10mm

4.SDC009-A0-106X

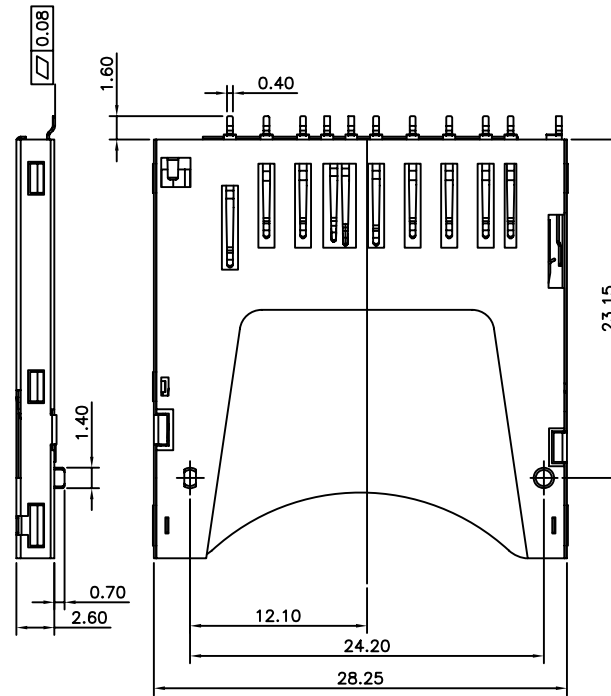
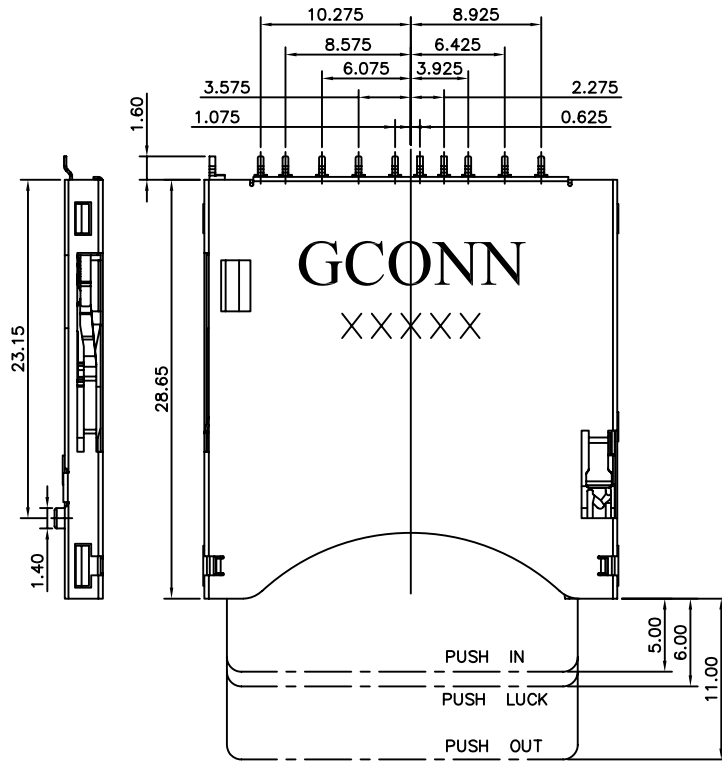
0: without logo & date code

1: with logo & date code



		GCONN 深圳市鉅航連接器有限公司 Gconn Connector(Shenzhen) Co., Ltd.			
Drawn		Tolerance Unless Otherwise Specified		Title: SD PUSH PUSH TYPE CONN	
Checked		.± 0.25	.± 3'	Part No.: SDC009-A0-106X	
Approval		.X± 0.15	.X'± 2'	Sheet 1/2	
		.XX± 0.10	.XX'± 1'	Rev A	
		.XXX± 0.05		www.gconn.cn	

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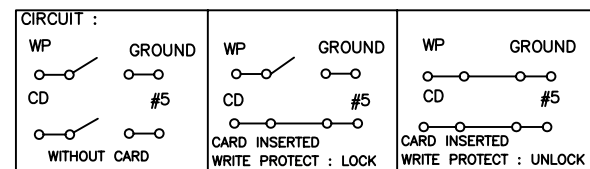
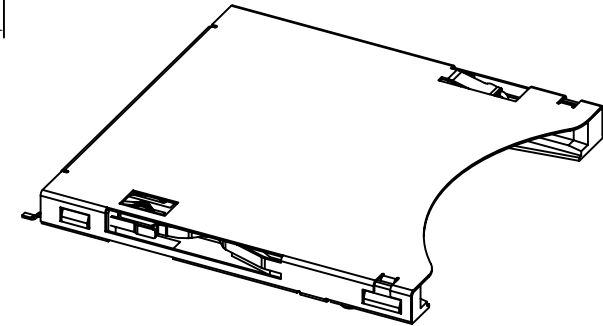
CONTACT AREA: GOLD OVER NICKEL

SOLDER AREA: TIN PLATING OVER NICKEL (LEAD FREE).

3.COPLANARITY MUST BE WITHIN 0.10mm

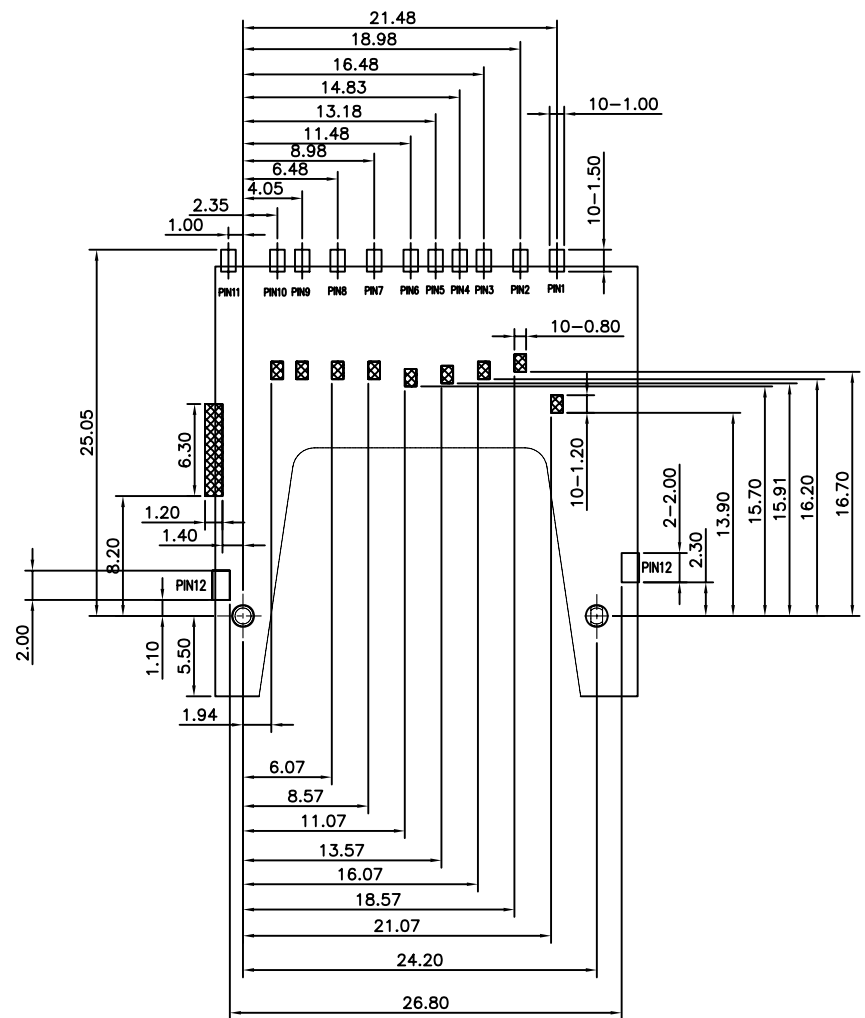
4.SDC009-A0-108X

0: without logo & date code
1: with logo & date code



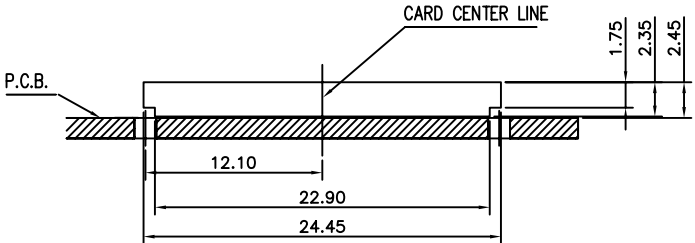
		GCONN 深圳市鉅航連接器有限公司 Gconn Connector(Shenzhen) Co., Ltd.			
Drawn		Tolerance Unless Otherwise Specified		Title: SD PUSH PUSH TYPE CONN	
Checked		.± 0.25	.± 3'	Part No.: SDC009-A0-108X	
Approval		.XX± 0.15	.XX'± 2'	Sheet 1/2	
		.XX± 0.10	.XX'± 1'	Rev A	
		.XXX± 0.05		www.gconn.cn	

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▨: PATTERN PROHIBITED AREA

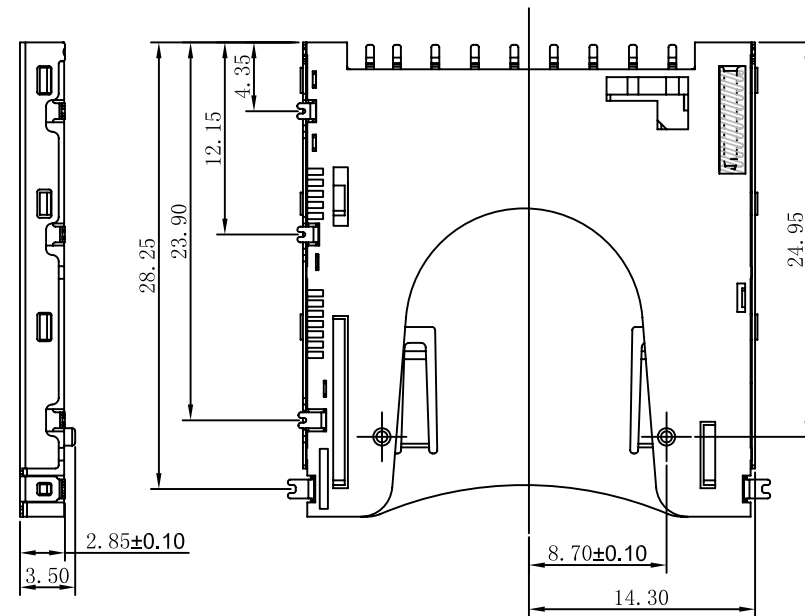
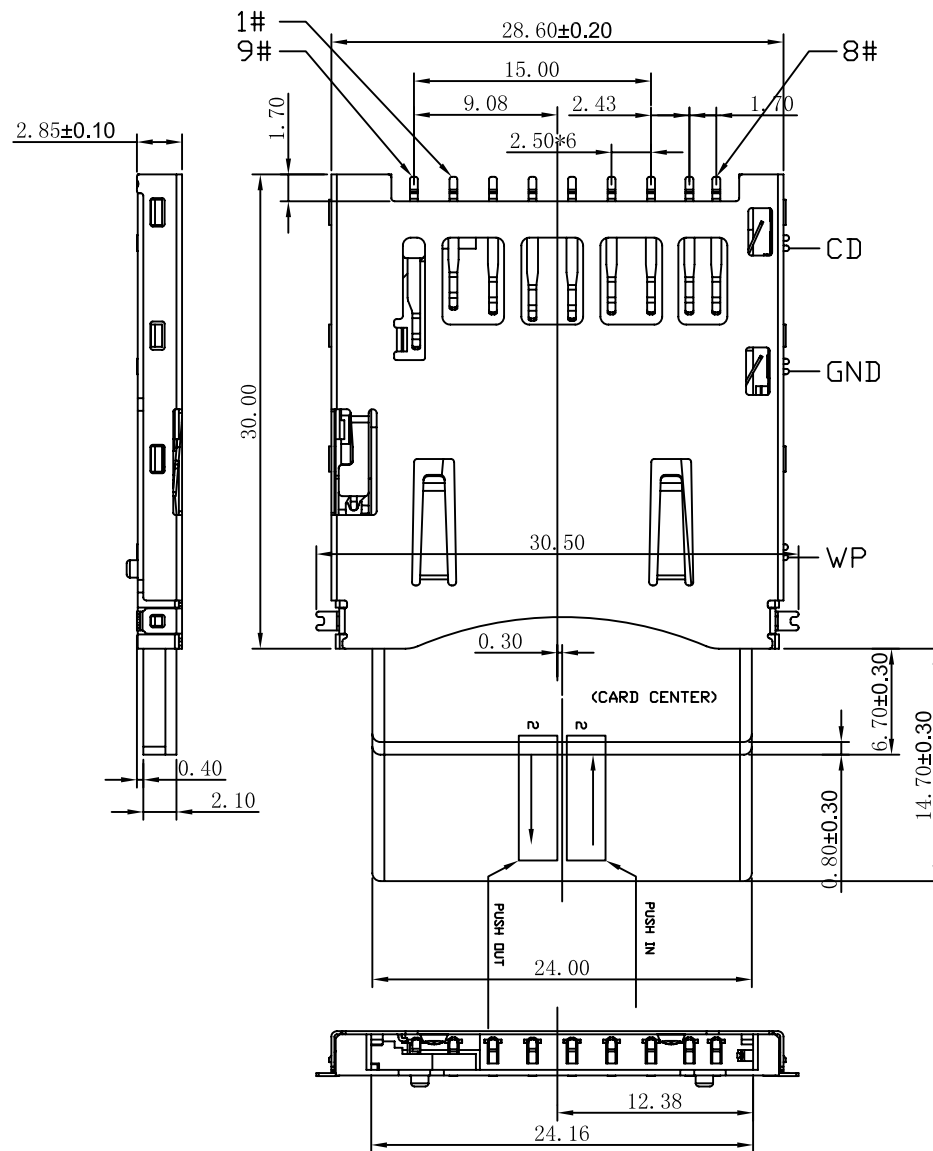
RECOMMEND P.C.B. LAYOUT
TOLERANCE± 0.05



Input Material Direction

PIN NO.	NAME
01	DAT2
02	DAT3
03	CMD
04	C/D
05	VSS1
06	VDD
07	CLK
08	VSS2
09	DAT0
10	DAT1
11	WP
12	GND

		GCONN 深圳市鉅航連接器有限公司 Gconn Connector(Shenzhen) Co., Ltd.				
Drawn		Tolerance Unless Otherwise Specified		Title: SD PUSH PUSH TYPE CONN		
Checked		± 0.25	$\pm 3'$	Part No.: SDC009-A0-108X		
		$.X \pm 0.15$	$.X' \pm 2'$			
Approval		$.XX \pm 0.10$	$.XX' \pm 1'$		Sheet 2/2	www.gconn.cn
		$.XXX \pm 0.05$			Rev A	

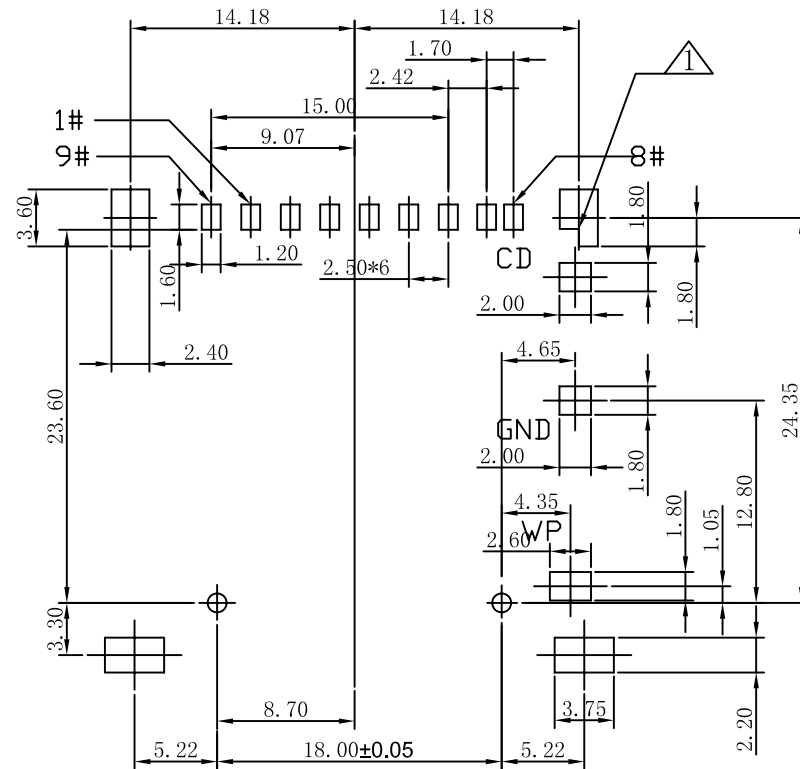


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		GCONN 深圳市鉅航連接器有限公司 Gconn Connector(Shenzhen) Co., Ltd.			
Drawn		Tolerance Unless Otherwise Specified		TITLE: SD Push 板下型	
Checked		.± 0.25	.± 3'	Part No. SDPR09-A0-0285	
Approval		.X± 0.15	.X'± 2'	Sheet: 1/2 Rev A www.gconn.cn	
		.XX± 0.10	.XX'± 1'		
		.XXX± 0.05			

REV.	ECN NO	DESCRIPTION	DATE	DRAW	APPR
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Electrical
Voltage:100V AC(RMS)/DC
Current:0.5 A AC(RMS)/DC
Contact Resistance:100mΩmax
Insulation Resistance:1000MΩmin
Dielectric Withstanding
Voltage:1000VAC/RMS
Operating Temp:-25℃~+90℃
Materials
Housing:LCP With 30% G/F, UL
94V-0 ,Black.
Terminal:Copper Alloy,Gold plated
on contact area.
Shield: 50U" Min Nickel underplating
on solder area.



Recommended P.C.Board Layout



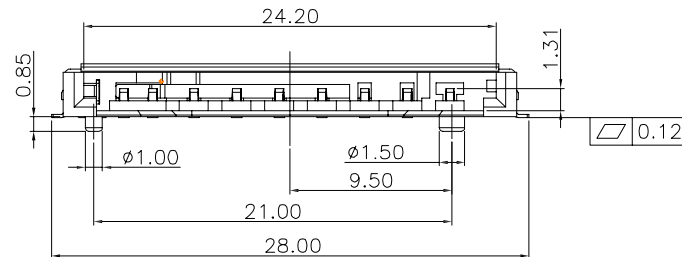
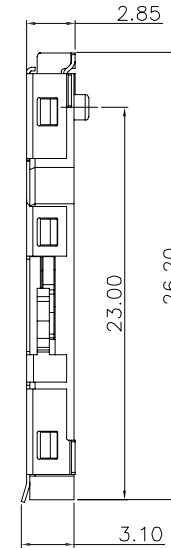
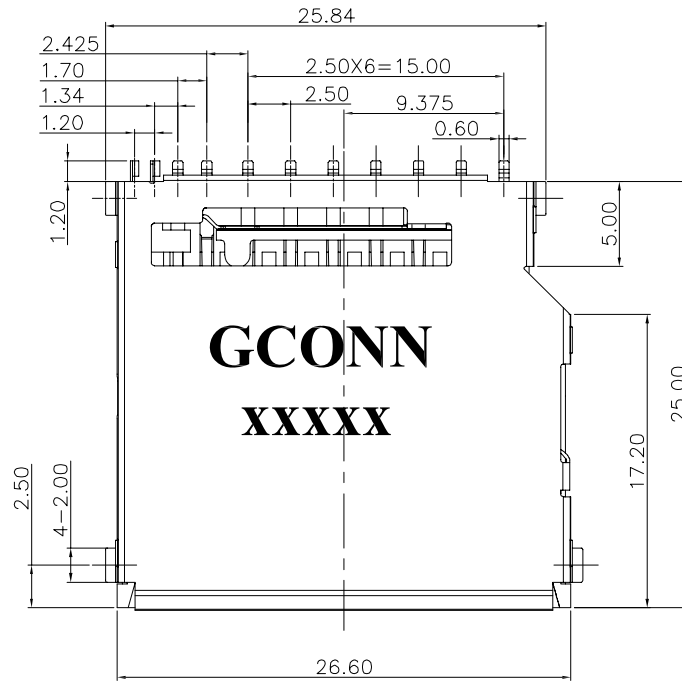
WP: WRITE PROTECT SWITCH CONTACT
GND: COMMON SWITCH CONTACT
CD: CARD DETECT SWITCH CONTACT

Switch Operation Diagram

SD CARD PIN DESIGN			
Pin#	Name	Type	Description
1	CD/DAT3	I/O/PP	Card Detect/ Data Line[Bit3]
2	CMD	PP	Command/Response
3	Vss1	S	Supply voltage ground
4	VDD	S	Supply voltage
5	CLK	I	Clock
6	Vss2	S	Supply voltage ground
7	DAT0	I/O/PP	Data Line [Bit 0]
8	DAT1	I/O/PP	Data Line [Bit 1]
9	DAT2	I/O/PP	Data Line [Bit 2]

		GCONN 深圳市鉅航連接器有限公司 Gconn Connector(Shenzhen) Co., Ltd.	
Drawn		Tolerance Unless Otherwise Specified	TITLE: SD Push 板下型
Checked		.± 0.25 .± 3'	Part No. SDPR09-A0-0285
Approval		.X± 0.15 .X± 2'	Sheet: 2/2
		.XX± 0.10 .XX± 1'	Rev A
		.XXX± 0.05	www.gconn.cn

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NOTES :

1. MATERIAL :

INSULATOR : HIGH THERMOPLASTIC UL 94V-0,

COLOR : IVORY/BLACK

CONTACT : COPPER ALLOY

WRITE PROTECT CONTACT:TITANIUM COPPER

COVER : STAINLESS

2. CONTACT AREA PLATING :

GOLD OVER Ni

COVER : SOLDER TAIL AREA GOLD PLATED

UNDER PLATED NICKEL OVERALL

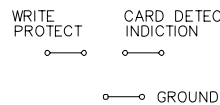
3. COPLANARITY MUST BE WITHIN 0.10mm

4. MULTIMEDIA CARD COMPATIBLE

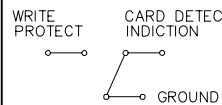
5.SDN09 - A0 - X280

0 - Without Logo & Datecode
1 - With Logo & Datecode

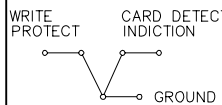
CIRCUIT:



WITHOUT CARD



CARD INSERTED
WRITE PROTECT: LOCK



CARD INSERTED
WRITE PROTECT: UNLOCK

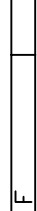


GCONN 深圳市鉅航連接器有限公司
Gconn Connector(Shenzhen) Co., Ltd.

Drawn		Tolerance Unless Otherwise Specified	Title: SD Normal Type C0NN
Checked		.± 0.25 .± 3'	Part No.: SDN09-A0-X280
Approval		.X± 0.15 .X'± 2'	Sheet 1/2
		.XX± 0.10 .XX'± 1'	Rev A
		.XXX± 0.05	www.gconn.cn

F	E	D	C	B	A
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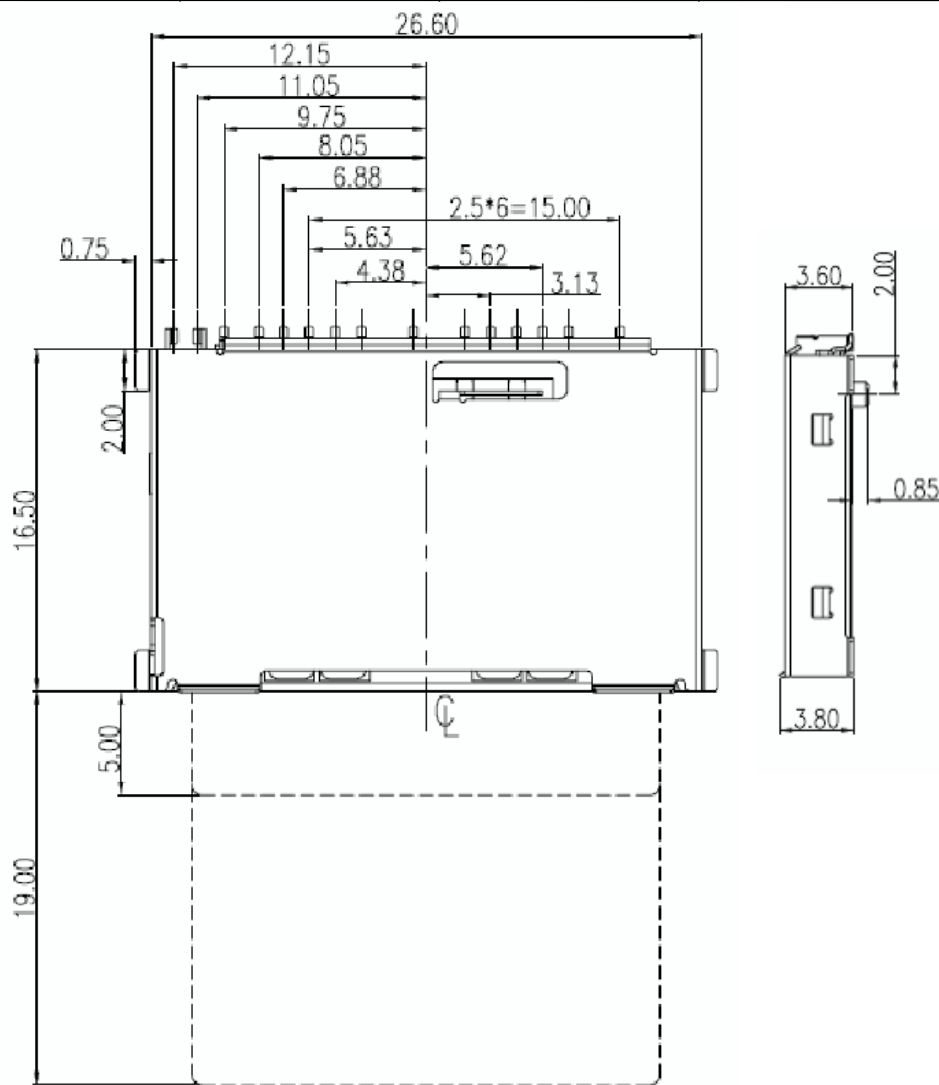
F	E	D	C	B
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4

1	2	3	4	5	6	7	8
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Notes:

1.Material:

Housing: High Temperature Thermoplastic
Color Black UL 94V-0
Contacts: Phosphor Bronze
Shell: Stainless Steel

2.Plating:

Contacts Area: Au Plated Over Ni
Under Plating: Nickel Overall
Shell: Plated 50 u" Ni Overall
Plated Au Selective Contact Area

3.Electrical:

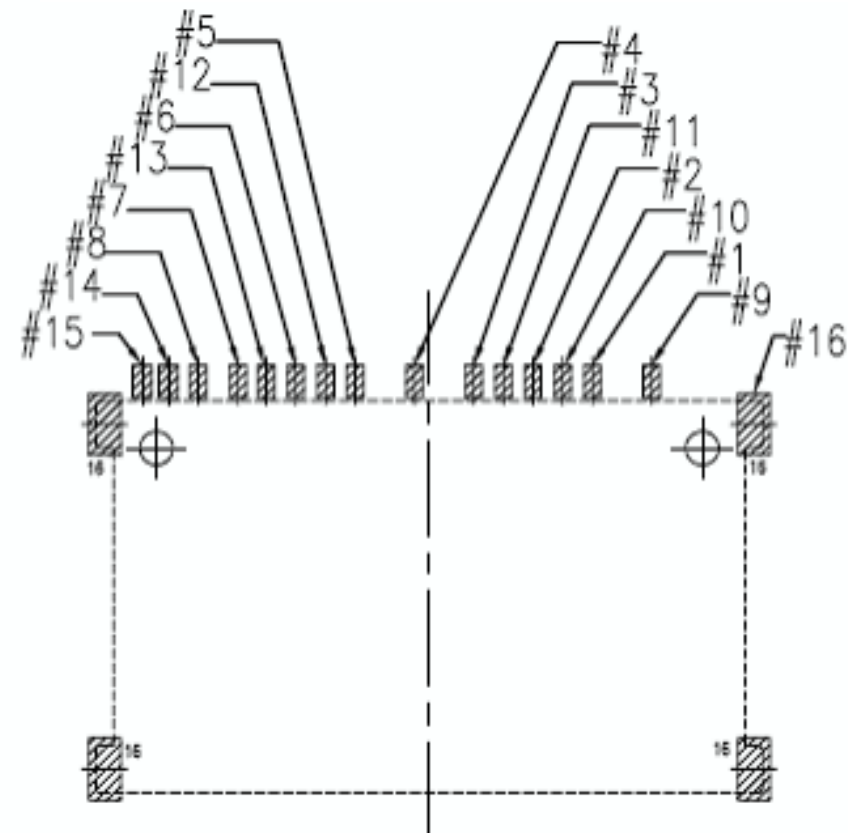
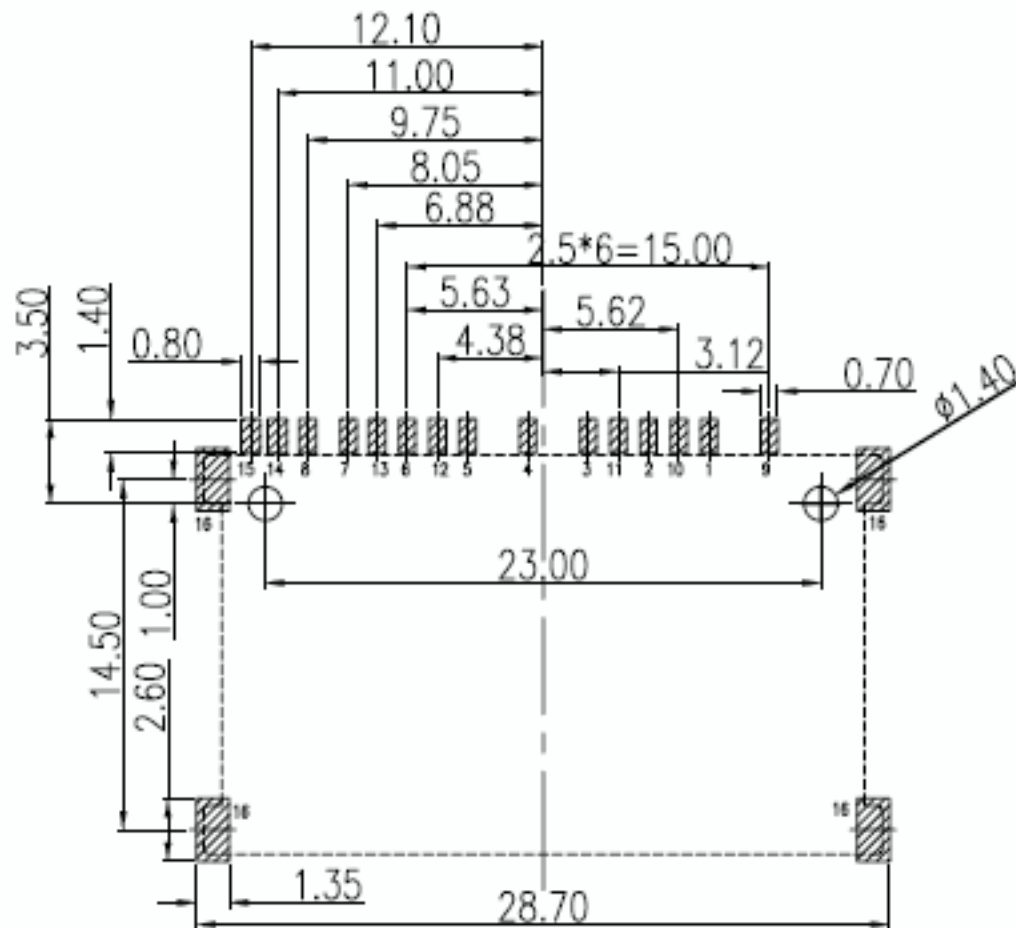
Current Rating :0.5A max.
Contact Resistance:100mΩ max
Insulation Resistance:1000MΩ min./500VDC
Dielectric Withstanding Voltage:500VAC/1minute
Operating Temperature:-25° C to+85° C
Mating Cycles:10,000 Insertions

4.Usable Memory Card:

SD/MMC/MMC 4.0/RS MMC/RS MMC 4.0

		GCONN 深圳市鉅航連接器有限公司 Gconn Connector(Shenzhen) Co., Ltd.	
Drawn		Tolerance Unless Otherwise Specified	TITLE: Mini 5 in 1 CONN NO-PUSH Type
Checked		.± 0.25 .± 3'	Part No. SDN13-A0-0360
Approval		.X± 0.15 .X'± 2"	Sheet: 1/2
		.XX± 0.10 .XX'± 1"	Rev A
		.XXX± 0.05	www.gconn.cn

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RECOMMEND PCB LAYOUT:
(Unit:mm .XX ±0.05)

NO.	Pin Assignment:	NO.	Pin Assignment:	NO.	Pin Assignment:	NO.	Pin Assignment:
1	DAT 3	5	CLK	9	DAT 2	13	DAT 7
2	CMD	6	VSS 2	10	DAT 4	14	CD
3	VSS	7	DAT 0	11	DAT 5	15	WP
4	VDD	8	DAT 1	12	DAT 6	16	GND



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Drawn		Tolerance Unless Otherwise Specified	TITLE Mini 5 in 1 CONN NO-PUSH Type
Checked		.± 0.25 .± 3° .X± 0.15 .X'± 2° .XX± 0.10 .XX'± 1° .XXX± 0.05	Part No. SDN13-A0-0360
Approval			 Sheet: 2/2 Rev A www.gconn.cn

