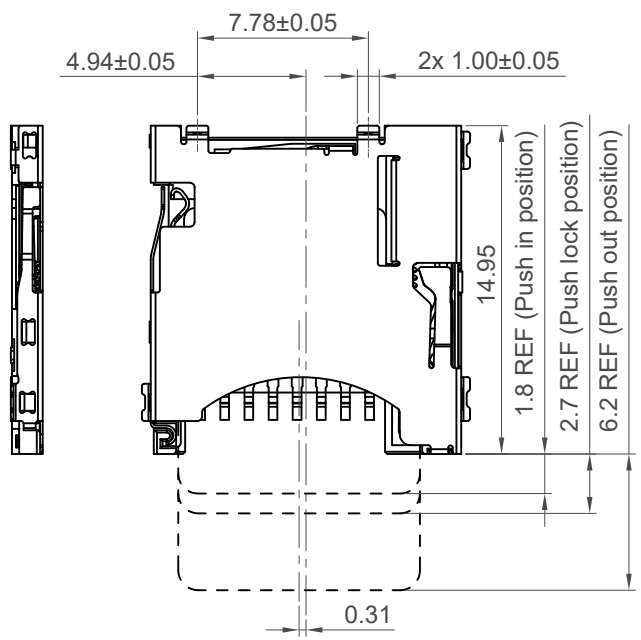
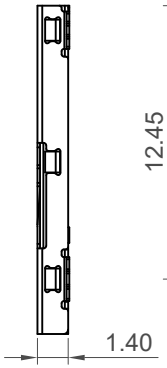
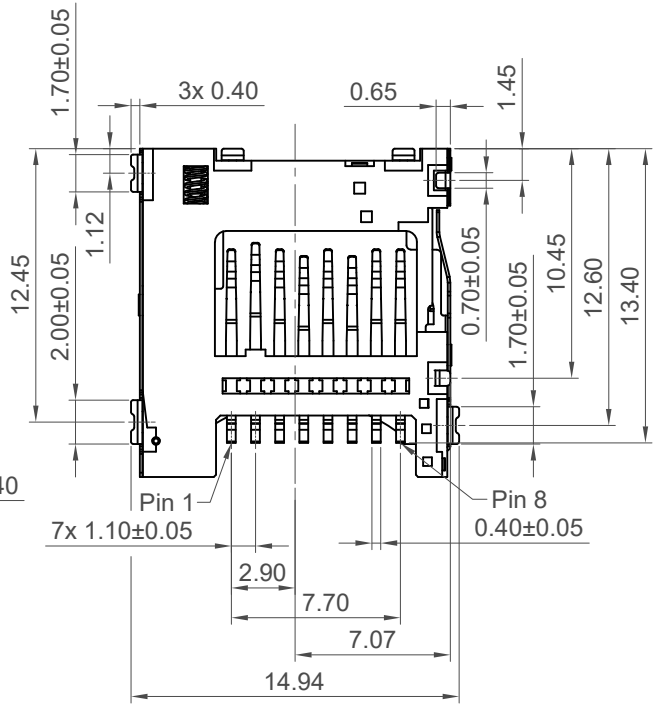
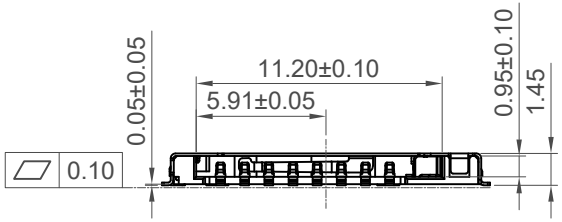
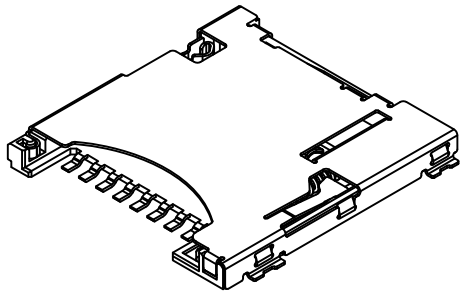










Card Detect Switch Circuit:	
Switch ○ ○ Ground Without Card (Normally open)	Switch ○—○ Ground Card Inserted

Specifications

Material
- Housing&Slider: LCP, UL94V-0, Black
- Terminal: Phosphor Bronze
- Shell: Stainless Steel
- Coil Spring: SWP
- Latch: Stainless Steel

Plating
- Terminal:
  - Contact Area: Gold Flash
  - Soldering Area: 100µ" min. Tin
  - Under-plating: 50µ" Min. Nickel All Over
- Metallic Shell :
  - Soldering Area : Gold Flash
  - Under-plating : 50µ" Min. Nickel All Over
- Coil Spring&Latch: Clear

Electrical
- Voltage Rating: 5V AC/DC
- Current Rating: 0.5A AC/DC max.
- Contact Resistance: 100mΩ max.
- Insulating Resistance: 1000MΩ min. at 500V DC
- Dielectric Withstand Voltage: 500V AC

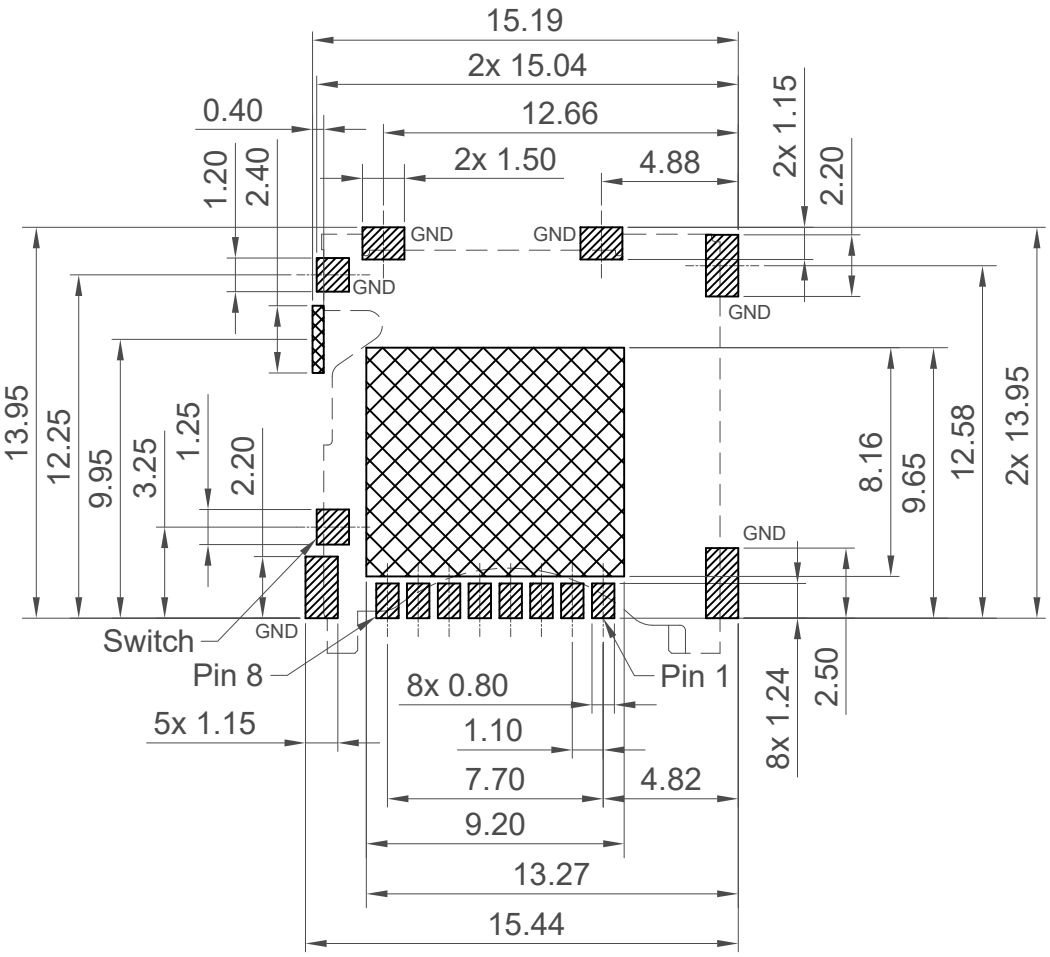
Mechanical & Environmental
- Durability: 10000 Cycles
- Operating Temperature: -40°C to +85°C

Ordering Grid

MEM2090 — 00 — 145 — 00 — A Request Samples and Quotation

Switch	Locating Post	Packing Options
00 = Normally Open	00 = Without	A = Tape & Reel *(1500 per Reel)*

Part Number		Product Description					
MEM2090		Micro SD Memory Card Connector Push-Push, SMT, 1.45mm Profile					
Drawing Date							
19th December 2023							
By	CC	Tolerances (Except as Noted) Length	Angle	Units: Metric (mm)	RoHS COMPLIANT 2011/65/EU Dec-BDE	This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE	GCT www.gct.co
Detail	Drawing Release	X.X ±0.30 X.XX ±0.20 X.XXX ±0.05	±2°	3rd Angle Projection			
Revision	A						Not to Scale / Drawn By CC / Sheet No. 1/3
Date	19/12/23						



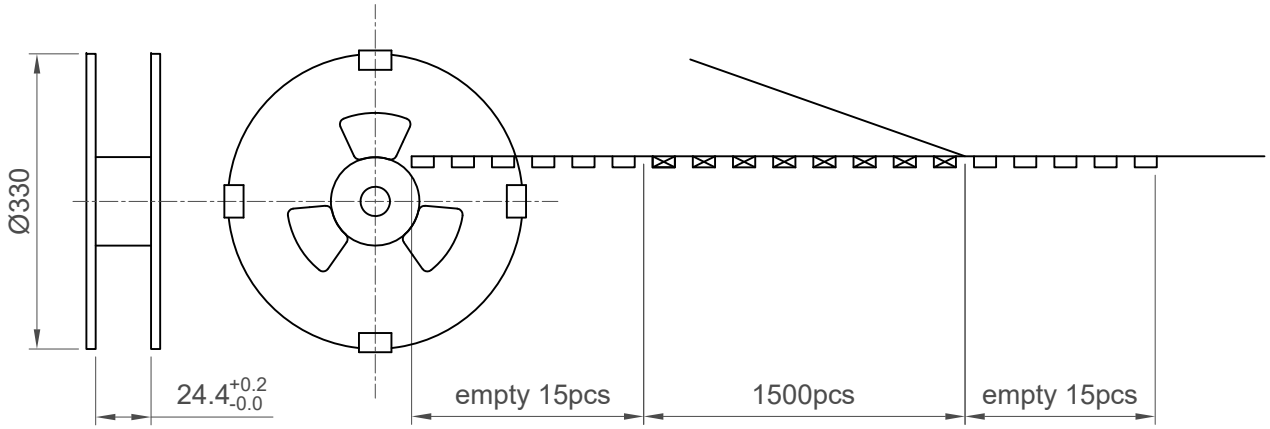
Recommended PCB Layout

As viewed from component side *General Tolerance: ±0.05*

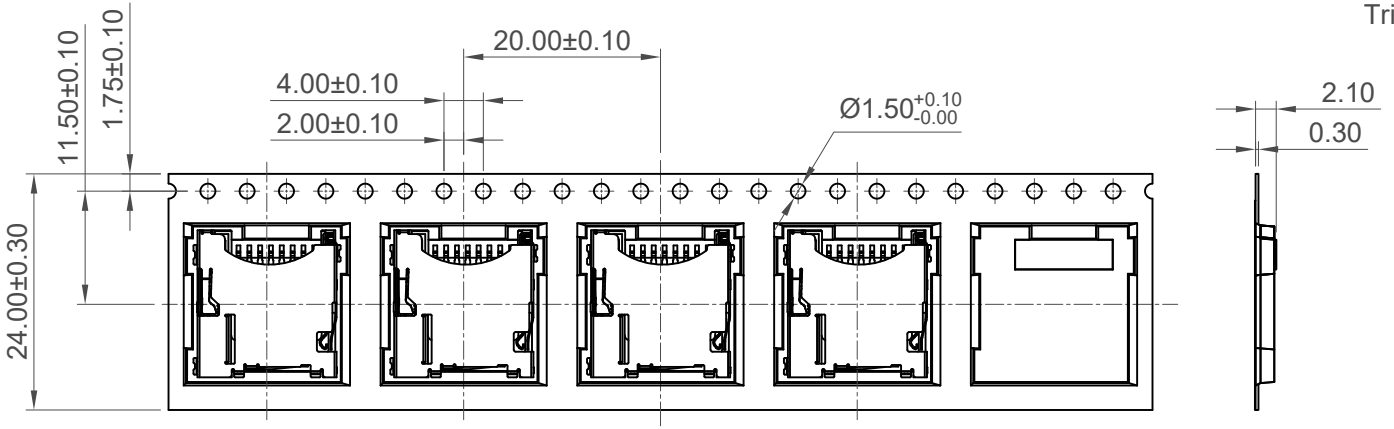
Solder Area Solder Keep Out Area Component Outline

Pin Assignment		
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
P5	CLK	Clock
P6	Vss	Ground
P7	DAT0	Data Bit 0
P8	DAT1	Data Bit 1

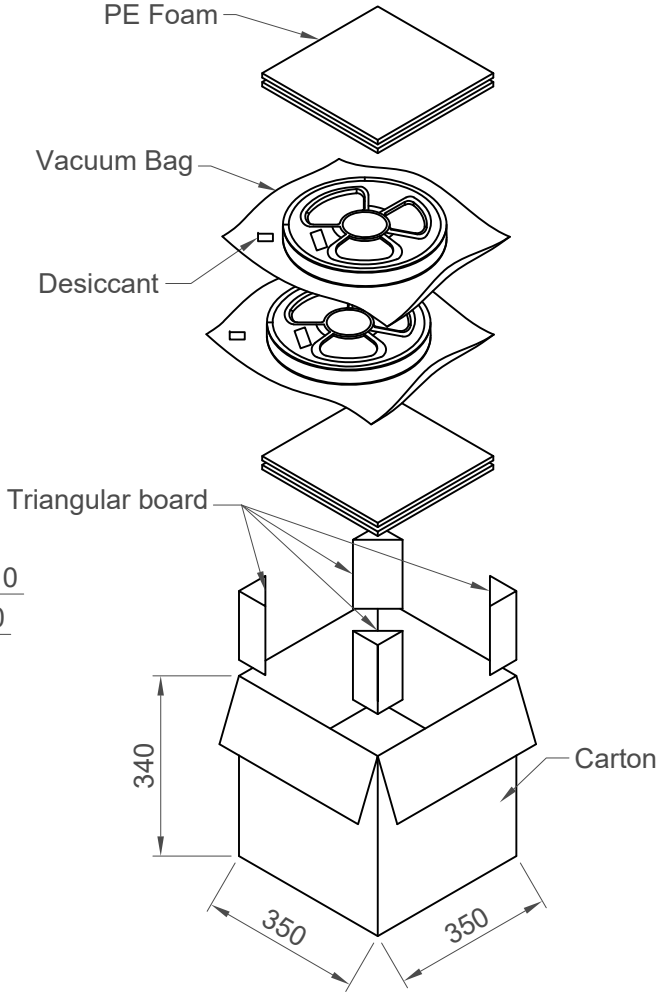
Part Number: MEM2090		Product Description: Micro SD Memory Card Connector Push-Push, SMT, 1.45mm Profile					GCT www.gct.co
Drawing Date: 19th December 2023							
By: CC		Tolerances (Except as Noted) Length: X.X ±0.30, X.XX ±0.20, X.XXX ±0.05	Angle: ±2°	Units: Metric (mm)	RoHS COMPLIANT 2011/65/EU Dec-2DE	This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE	Not to Scale / Drawn By: CC / Sheet No.: 2/3
Detail	Drawing Release			3rd Angle Projection			
Revision: A							
Date: 19/12/23							



Pull out direction



Pull out direction



Pcs/Reel	Reels/Carton	Pcs/Carton
1500	10	15000

Part Number		Product Description					
MEM2090		Micro SD Memory Card Connector Push-Push, SMT, 1.45mm Profile					
Drawing Date							
19th December 2023							
By	CC	Tolerances (Except as Noted)		Units:	RoHS COMPLIANT 2011/65/EU Deca-BDE	This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE	GCT www.gct.co
Detail	Drawing Release	Length	Angle	Metric (mm)			
Revision	A	-	-	3rd Angle Projection			
Date	18/12/23						

Not to Scale	Drawn By	Sheet No.
	CC	3/3