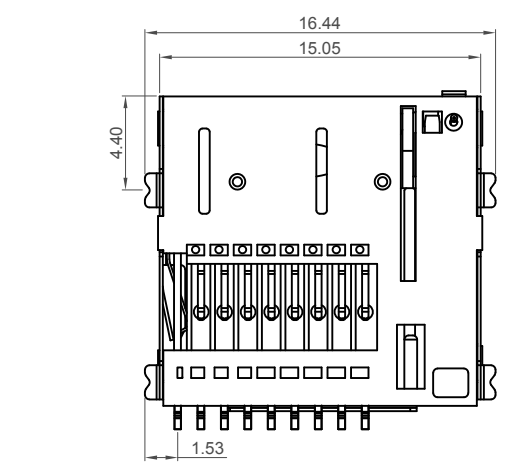
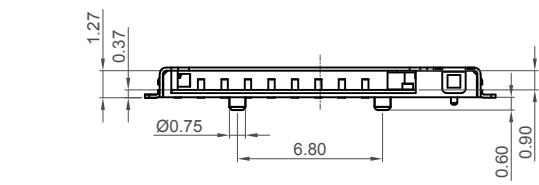
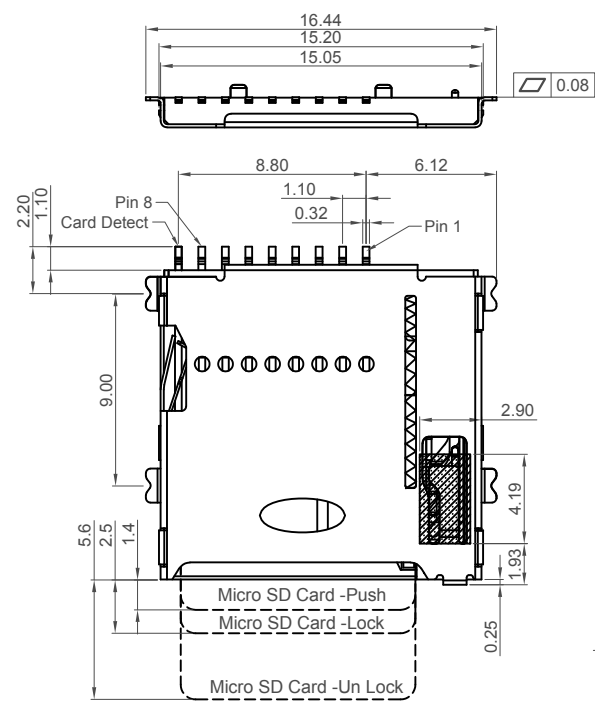
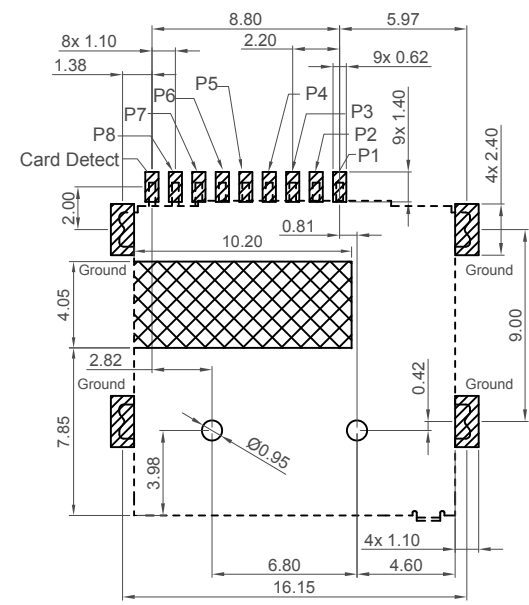
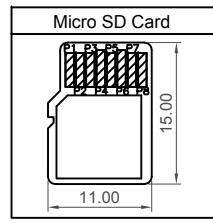


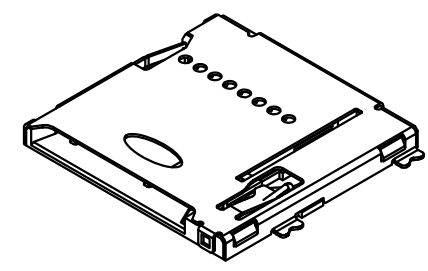
H
G
F
E
D
C
B
A



Micro SD Card Pin Assignment			
Pin	Name	Type	Description
P1	DAT2	I/O/PP	Data Line [Bit 2]
P2	CD/DAT3	I/O/PP	Card Detect/Data Line [Bit 3]
P3	CMD	PP	Command/Response
P4	V _{DD}	S	Supply Voltage
P5	CLK	I	Clock
P6	V _{SS}	S	Supply Voltage Ground
P7	DAT0	I/O/PP	Data Line [Bit 0]
P8	DAT1	I/O/PP	Data Line [Bit 1]



Recommended PCB Layout
As viewed from component side General Tolerance: ±0.05
 Solder Area Keep Out Area Component Outline



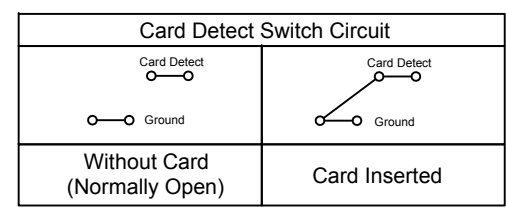
Specifications

Material
Housing: Hi-temp Thermoplastic, UL94V-0, Black
Contact Terminal: Copper Alloy
Metallic Shell: Stainless Steel
Coil Spring: SWP
Latch: Stainless Steel
Slider: Hi-temp Thermoplastic, UL94V-0, Black
CD Pin: Copper Alloy




Plating
Contact Terminal & CD Pin:
Under-plating: 50µ" min. Nickel all over
Contact Area: 1u" Au min
Soldering Area: Gold Flash
Metallic Shell:
Under-plating: 50µ" Nickel all over
Soldering Area: Gold Flash

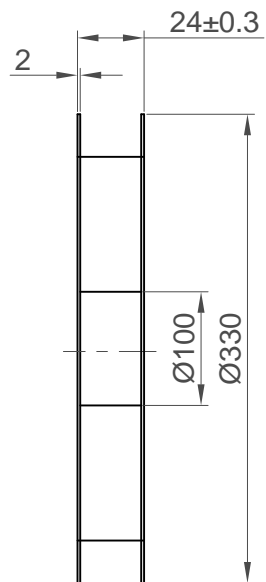
Electrical
Voltage Rating: 30V AC/DC
Current Rating: 0.5A per pin.
Contact Resistance: 100mΩ max.
Insulating Resistance: 1000MΩ min.
Dielectric Withstand Voltage: 500 V AC

Mechanical & Environmental
Operating Temperature: -25°C to +85°C
Durability: 5000 Cycles
Lock/Release Force: 10N (1.02 kgF) max

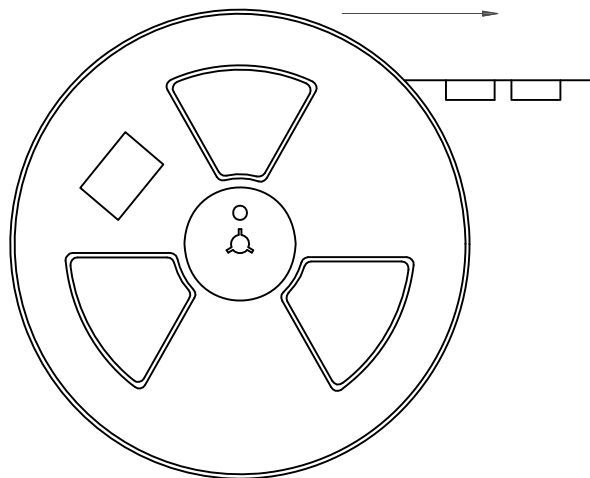


Ordering Grid
MEM2075-00-140-01-A
Switch: 00 = Normally Open Locating Post: 01 = With Packing Options: A = Tape & Reel (1000 per Reel)

Part Number			Product Description			<div> www.gct.co</div>
MEM2075			Micro SD Memory Card Connector, 1.40mm Profile SMT, Push-Push, with Normally open Switch			
Drawing Date						
19th December 2017						
By	CC	Tolerances (Except as Noted)		Units:	<div> 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</div>	
Detail	Drawing Release	Length	Angle	Metric (mm)		
Revision	A1	X.X ±0.25 X.XX ±0.15 X.XXX ±0.100	±1°	<div> 3rd Angle Projection</div>		
Date	10/09/20					
Not to Scale		Drawn By		Sheet No.		
		CC		1/2		

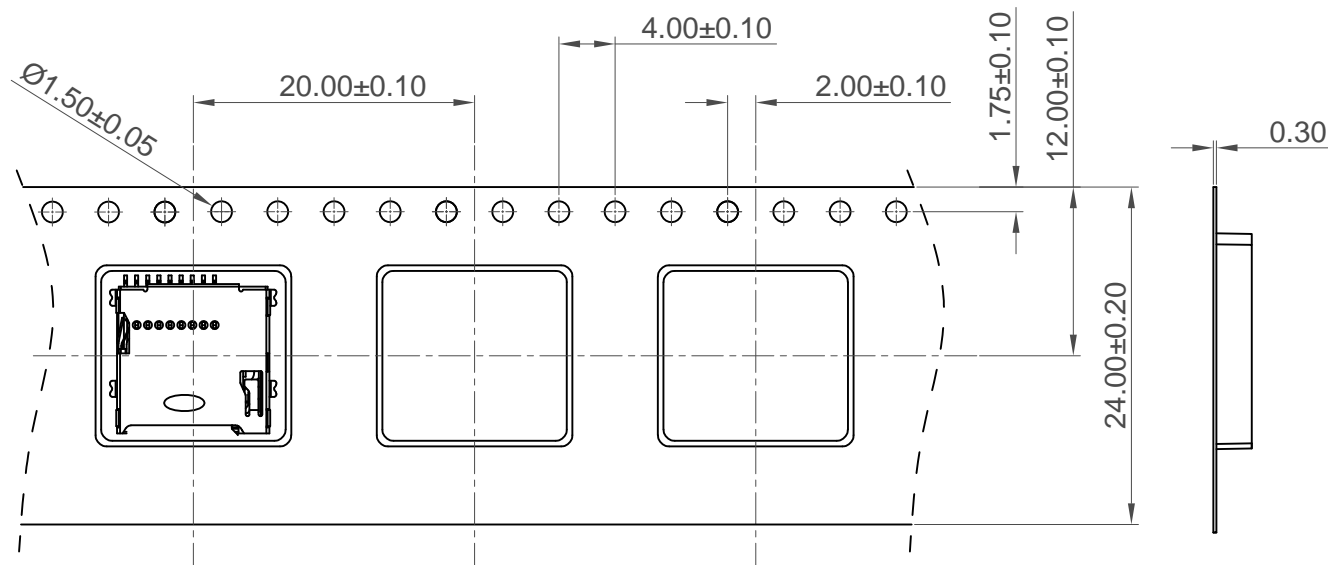


Pull out direction



Pcs/Reel	Reels/Carton	Pcs/Carton	Carton Dimensions
1000	10	10000	345 x 345 x 315mm

Quantity:1000 pcs/Reel



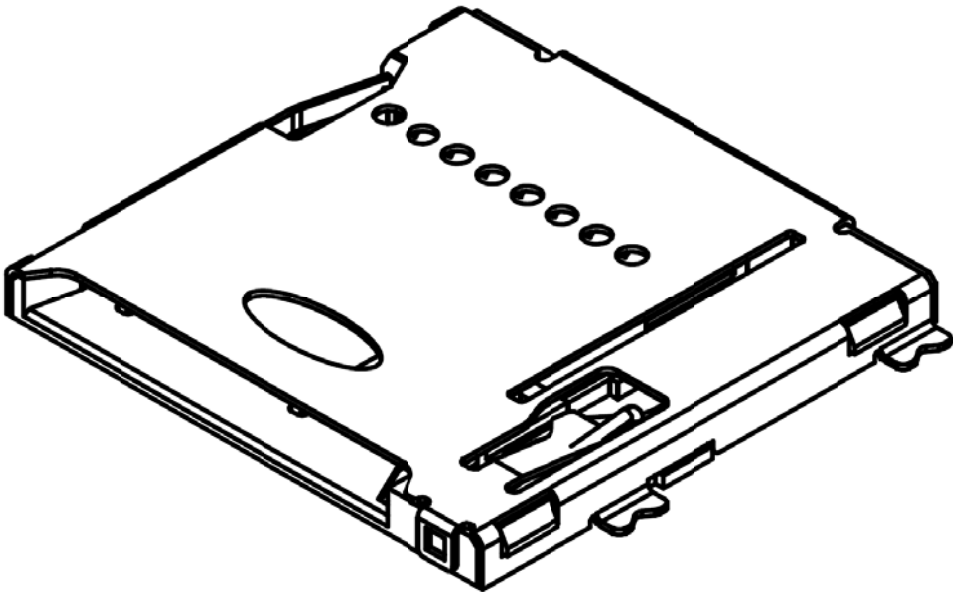
Note: All dimensions meet EIA-481-B requirements.

Part Number		Product Description	
MEM2075		Micro SD Memory Card Connector, 1.40mm Profile	
Drawing Date		SMT, Push-Push, with Normally open Switch	
19th December 2017			
By	CC	Tolerances (Except as Noted)	Units:
Detail	Drawing Release	Length	Metric (mm)
Revision	A1	Angle	±1°
Date	10/09/20	X.X ±0.38 X.XX ±0.25 X.XXX ±0.100	3rd Angle Projection
		RoHS COMPLIANT 2011/65/EU Deca-SIDE	
		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. 2/2

GCT
www.gct.co

PRODUCT SPECIFICATION

Part Number	MEM2075	Rev	A		Date	07/12/17	
Product Description	Micro SD Memory Card Connector, 1.40mm Profile, SMT, Push-Push, with Normally Open Switch.				Page	1	
Doc Number	MEM2075	Prepared	CC	Checked	VJ	Approved	ST



PRODUCT SPECIFICATION

Part Number	MEM2075	Rev	A	Date	07/12/17
Product Description	Micro SD Memory Card Connector, 1.40mm Profile, SMT, Push-Push, with Normally Open Switch.				Page 2
Doc Number	MEM2075	Prepared	CC	Checked	VJ Approved ST

1.0 SCOPE.

This specification covers performance, test and quality requirements for the Micro SD Memory Card Connector Normally open MEM 2075(Push-Push Type, SMT, 1.40mm Profile.).

2.0 PRODUCT NAME AND PART NUMBER.

Memory Card Connector, Push-Push Type: MEM2075.

3.0 PRODUCT SHAPE, DIMENSIONS AND MATERIAL.

Please refer to drawings.

4.0 RATINGS.

4.1 Current rating 0.5A DC (per pin)

4.2 Voltage rating30 Volts AC(RMS)

4.3 Operating Temperature Range-25°C TO +85°C

5.0 TEST AND MEASUREMENT CONDITIONS.

Product is designed to meet electrical, mechanical and environmental performance requirements specified in Paragraph 6.0. All tests are performed in ambient conditions unless otherwise specified.

6.0 PERFORMANCE.

Item	Test Condition	Requirement
Examination of Product	Visual, dimensional and functional inspection as per quality plan.	Product shall meet requirements of product drawing and specification.

PRODUCT SPECIFICATION

Part Number	MEM2075	Rev	A	Date	07/12/17
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6.1 Electrical Performance.

Item	Test Condition	Requirement
Contact Resistance	Measure and record contact resistance of mated connector using test current of 10mA max and 20 mV open circuit voltage in accordance with EIA-364-6B.	Less than 80 mΩ initial Less than 100 mΩ at end of test
Insulation Resistance	Apply 500Volts DC between adjacent contacts of mated connectors for one minute in accordance with EIA-364-21C	Greater than 1000 MΩ
Dielectric Strength	Mate connectors and apply 500 V AC for 1 minute between adjacent terminal ground, in accordance with EIA-364-20B.	No creeping discharge or flash over. Current leakage less than 1.0 mA

6.2 Mechanical Performance.

Item	Test Condition	Requirement
Card Retention Force	Pull the card at speed of 25mm/min.	Initial value 0.8N minimum.
Insertion/Ejection Force	Push the card at speed of 25+/- 3mm/minute.	Lock Force: 10N (1.02 kgf) Max. Lock Release Force: 10N (1.02 kgf) Max.
Durability	The connector should be mated and unmated for 5000 cycles with 0.6mm travel at a rate of 25mm/min.	No evidence of physical damage. Contact Resistance $\leq 100\text{m}\Omega$ at end of test .
Vibration	Subject mated connectors to 10 to 55 to 10 Hz frequency span over 1 minute at a 1.5mm amplitude. Test to be conducted on 3 mutually perpendicular planes for 15minutes eachwith 100mA appliedand in accordance with EIA-364-28D.	No electrical discontinuity greater than 1 μ sec. shall occur. No damage to product. Contact Resistance $\leq 100\text{m}\Omega$ at end of test .
Mechanical Shock	Subject the part to a 294m/s ² half sine wave acceleration for 11 ms. Three shocks to be applied in each of the X, Y and Z planes and in both directions. A total of 18 shocks. Apply DC 1 mA current during test in accordance with EIA-364-27B.	No electrical discontinuity greater than 1 μ sec. shall occur. No damage to product. Contact Resistance $\leq 100\text{m}\Omega$ at end of test .

PRODUCT SPECIFICATION

Part Number	MEM2075	Rev	A		Date	07/12/17	
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Doc Number	MEM2075	Prepared	CC	Checked	VJ	Approved	ST

6.3 Environmental Performance and Others.

Item	Test Condition	Requirement
Thermal Shock	Mate Connector and perform the following thermal cycle :- -55+/-3°C for 30 minutes. +85+/-2°C for 30 minutes. Repeat for 5 cycles in accordance with EIA-364-32C.	No evidence of physical damage, discharge, flashes or corrosion in contact areas. Contact Resistance Less than 100mΩ at end of test. Insulation Resistance greater than 1000MΩ at end of test.
Humidity Test	Mate connector and expose to temperature of 40±2°C with 95% RH for 96 hours then place in ambient temperature for 1 to 2 hrs. In accordance with EIA-364-31 method III test condition A.	
Salt Water Spray	Subject mated connectors to 35±2°C and 5±1% salt condition for 48 hours. Test in accordance with EIA-364-26B.	
Temperature Life (High)	Subject product to 85±2°C for 96 hours continuously in accordance with MIL-STD-202, Method 108.	
Solderability	Dip solder tails into molten solder, held at a temperature of 245±5°C for 5±0.5 seconds, in accordance with EIA-364-52.	95% of immersed area must show no voids of pin holes.
Resistance to Reflow Soldering Heat.	Mount connector, place in reflow oven and expose to the temperature profile shown in fig 1.0	No evidence of physical damage or abnormalities adversely affecting performance.

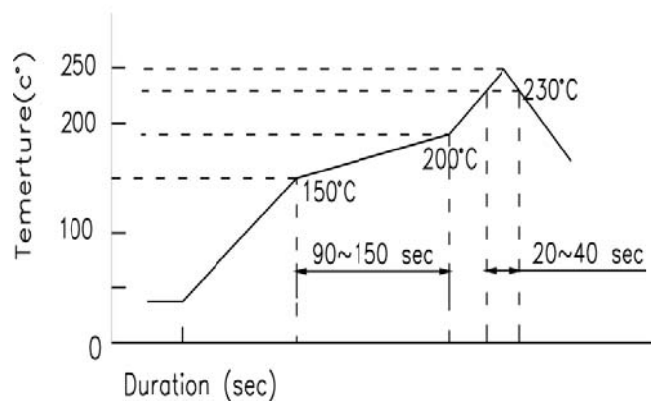


Fig.1. Recommended Reflow Temp. Profile

PRODUCT SPECIFICATION

Part Number	MEM2075	Rev	A	Date	07/12/17
Product Description	Micro SD Memory Card Connector, 1.40mm Profile, SMT, Push-Push, with Normally Open Switch.				Page 5
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7.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

Test Item	Group						
	A	B	C	D	E	F	G
Examination of Product	1,7	1,10	1,10	1,5	1,5	1,3	1,3
Contact Resistance	3,6	2,7	2,7	2,4	2,4		
Insulation Resistance		3,8	3,8				
Dielectric Withstanding Voltage		4,9	4,9				
Mechanical shock		6					
Card Retention Force	2,5						
Insertion/Ejection Force	2,5						
Durability	4						
Vibration		5					
Humidity			6				
Salt Water Spray				3			
Temperature Life					3		
Thermal Shock			5				
Solderability						2	
Resistance to Reflow Soldering heat							2
Sample QTY.	5	5	5	5	5	5	5

PRODUCT SPECIFICATION

Part Number	MEM2075	Rev	A	Date	07/12/17
Product Description	Micro SD Memory Card Connector, 1.40mm Profile, SMT, Push-Push, with Normally Open Switch.				Page 6
Doc Number	MEM2075	Prepared	CC	Checked VJ	Approved ST

Revision details :-

Revision	Information	Page	Release Date
A	Specification released.	-	07/12/17