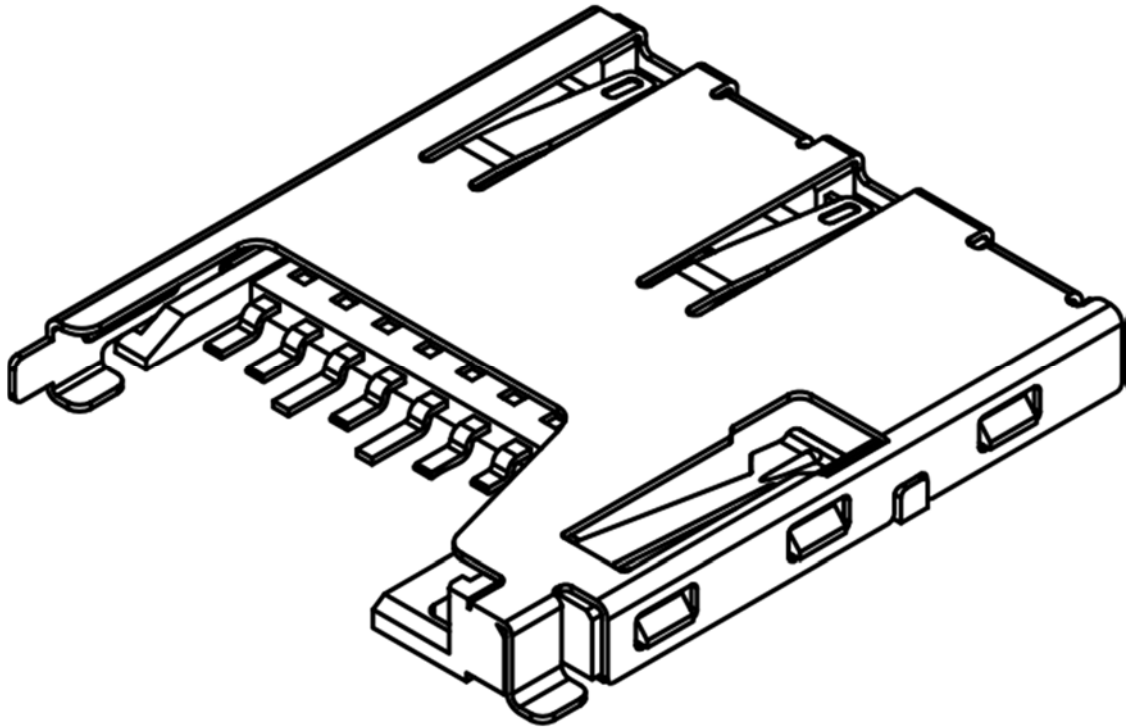


# PRODUCT SPECIFICATION

|                            |  |                 |    |                |          |                 |    |
|----------------------------|--|-----------------|----|----------------|----------|-----------------|----|
| <b>Part Number</b>         | MEM2061  | <b>Rev</b>      | A  | <b>Date</b>    | 01/06/15 |                 |    |
| <b>Product Description</b> | Micro SD Memory Card Connector, Push-Push, SMT, Card Entry Normal, 1.88mm Profile. |                 |    | <b>Page</b>    | 1        |                 |    |
| <b>Doc Number</b>          | MEM2061  | <b>Prepared</b> | AO | <b>Checked</b> | VJ       | <b>Approved</b> | ST |



# PRODUCT SPECIFICATION

|                            |  |                 |           |                |           |                 |           |
|----------------------------|--|-----------------|-----------|----------------|-----------|-----------------|-----------|
| <b>Part Number</b>         | MEM2061  | <b>Rev</b>      | A         | <b>Date</b>    | 01/06/15  |                 |           |
| <b>Product Description</b> | Micro SD Memory Card Connector, Push-Push, SMT, Card Entry Normal, 1.88mm Profile. |                 |           | <b>Page</b>    | 2         |                 |           |
| <b>Doc Number</b>          | MEM2061  | <b>Prepared</b> | <b>AO</b> | <b>Checked</b> | <b>VJ</b> | <b>Approved</b> | <b>ST</b> |

## 1.0 SCOPE.

This specification covers performance, test and quality requirements for the Micro SD Memory Card Connector Normally open MEM 2061 (Push-Push Type, SMT, 1.88mm Profile.).

## 2.0 PRODUCT NAME AND PART NUMBER.

Memory Card Connector, Push-Push Type: MEM2061.

## 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 rating ..... 100 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

|                            |  |                 |           |                 |           |
|----------------------------|--|-----------------|-----------|-----------------|-----------|
| <b>Part Number</b>         | MEM2061  | <b>Rev</b>      | A         | <b>Date</b>     | 01/06/15  |
| <b>Product Description</b> | Micro SD Memory Card Connector, Push-Push, SMT, Card Entry Normal, 1.88mm Profile. |                 |           | <b>Page</b>     | 3         |
| <b>Doc Number</b>          | MEM2061  | <b>Prepared</b> | <b>AO</b> | <b>Checked</b>  | <b>VJ</b> |
|                            |  |                 |           | <b>Approved</b> | <b>ST</b> |

## 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<br>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 500 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.<br>Current leakage less than 1.0 mA |

## 6.2 Mechanical Performance.

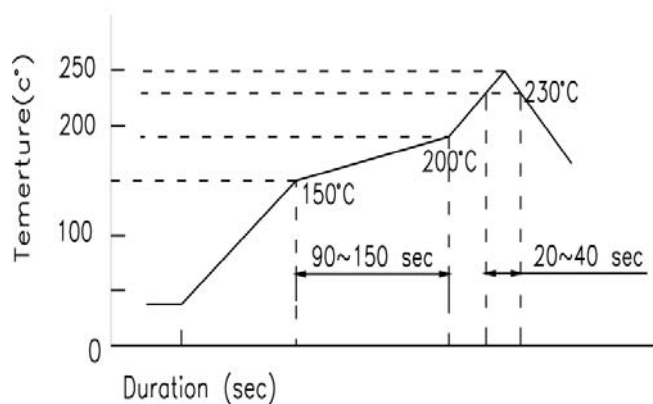
| Item                     | Test Condition   | Requirement   |
|--------------------------|--|---|
| Card Retention Force     | Pull the card at speed of 25mm/min.  | Initial value 0.8N minimum.   |
| Insertion/Ejection Force | Push the card at speed of 25+/- 3mm/minute.  | Lock Force: 10N (1.02 kgf) Max.<br>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.<br><br>Contact Resistance $\leq 100m\Omega$ 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 15 minutes each with 100mA applied and in accordance with EIA-364-28D.                              | No electrical discontinuity greater than 1 μ sec. shall occur. No damage to product.<br><br>Contact Resistance $\leq 100m\Omega$ at end of test . |
| Mechanical Shock         | Subject the part to a 294 m/s <sup>2</sup> half sine wave acceleration for 11 ms.<br>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.<br>Contact Resistance $\leq 100m\Omega$ at end of test .     |

# PRODUCT SPECIFICATION

|                            |  |                 |           |                 |           |
|----------------------------|--|-----------------|-----------|-----------------|-----------|
| <b>Part Number</b>         | MEM2061  | <b>Rev</b>      | A         | <b>Date</b>     | 01/06/15  |
| <b>Product Description</b> | Micro SD Memory Card Connector, Push-Push, SMT, Card Entry Normal, 1.88mm Profile. |                 |           | <b>Page</b>     | 4         |
| <b>Doc Number</b>          | MEM2061  | <b>Prepared</b> | <b>AO</b> | <b>Checked</b>  | <b>VJ</b> |
|                            |  |                 |           | <b>Approved</b> | <b>ST</b> |

## 6.3 Environmental Performance and Others.

| Item                                 | Test Condition   | Requirement   |
|--------------------------------------|--|---|
| Thermal Shock                        | Mate Connector and perform the following thermal cycle :-<br><br>-55+/-3°C for 30 minutes.<br>. +85+/-2°C for 30 minutes.<br><br>Repeat for 5 cycles in accordance with EIA-364-32C.     | No evidence of physical damage, discharge, flashes or corrosion in contact areas.<br><br>Contact Resistance<br>Less than 100mΩ at end of test.<br><br>Insulation Resistance<br>greater than 1000Ω 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 48hours. 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 solders 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

|                            |  |                 |           |                |           |                 |           |
|----------------------------|--|-----------------|-----------|----------------|-----------|-----------------|-----------|
| <b>Part Number</b>         | MEM2061  | <b>Rev</b>      | A         | <b>Date</b>    | 01/06/15  |                 |           |
| <b>Product Description</b> | Micro SD Memory Card Connector, Push-Push, SMT, Card Entry Normal, 1.88mm Profile. |                 |           | <b>Page</b>    | 5         |                 |           |
| <b>Doc Number</b>          | MEM2061  | <b>Prepared</b> | <b>AO</b> | <b>Checked</b> | <b>VJ</b> | <b>Approved</b> | <b>ST</b> |

## 7.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

| Test Item                           | Group |      |       |     |     |     |     |
|-------------------------------------|-------|------|-------|-----|-----|-----|-----|
|                                     | A     | B    | C     | D   | E   | F   | G   |
| Examination of Product              | 1,7   | 1,10 | 1,100 | 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   |

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Memory Card Connectors](#) category:*

*Click to view products by [GCT](#) manufacturer:*

Other Similar products are found below :

[M21-033321-005](#) [6407-249V-25273P](#) [6407-249V-25343P](#) [6426-201-21343](#) [69.920.0553.0](#) [FCN-568P068-G/07-4V](#) [809180410000000](#)  
[HMCAP001](#) [252-0144-000](#) [2041353-2](#) [33CFAE-DN](#) [502431-1011](#) [617230001](#) [NX1-32T-KT3K\(05\)](#) [95622-003LF](#) [N7E50-U516RB-50-](#)  
[SIN0005](#) [95079-00CALF](#) [84648-056HLF](#) [33DVIR-29S12R](#) [125A-78C00](#) [MI20A-50PD-SF-EJL\(71\)](#) [KP10S-SF-PEJ\(812\)](#) [504536-0691](#)  
[504580-0691](#) [CCM03-3109 B LFT](#) [MI21-50PD-SF\(91\)](#) [2309923-1](#) [61126-050CAHLF](#) [IC1GA-68PD-1.27DS-EJ\(72\)](#) [GTFP08432B1HR](#)  
[G85DT17001P1EU](#) [G85B21611142HHR](#) [GSD090144HR](#) [G85D1140022P1HR](#) [GMCB05801124EU](#) [G85C11101152HHR](#)  
[G85B231021B1HR](#) [G85D1160022HHR](#) [123A-21M00](#) [123A-30B00](#) [123A-30A00](#) [123A-21A00](#) [123A-21B00](#) [123A-21E00](#) [123A-30E00](#)  
[123A-30M00](#) [123A-40A00](#) [123A-40E00](#) [123A-40M00](#) [123A-58B01](#)