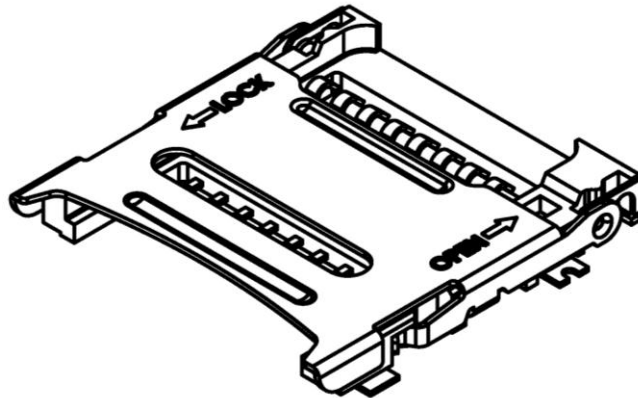


PRODUCT SPECIFICATION

Part Number	MEM2066	Rev	B	Date	22/06/11		
Product Description	Micro SD Memory Card Connector, SMT, Hinged, 1.90mm Profile.				Page	1	
Doc Number	MEM2066	Prepared	SA	Checked	DR	Approved	LH



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PRODUCT SPECIFICATION

Part Number	MEM2066	Rev	B	Date	22/06/11
Product Description	Micro SD Memory Card Connector, SMT, Hinged, 1.90mm Profile.			Page	2
Doc Number	MEM2066	Prepared	SA	Checked	DR
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1.0 SCOPE.

This specification covers the Micro SD Memory Card Connector, SMT, MEM2066 series. (Hinged Type, SMT, 1.90mm profiles).

2.0 PRODUCT NAME AND PART NUMBER.

Micro SD Memory Card Connector, Hinged Type: MEM2066

3.0 PRODUCT SHAPE, DIMENSIONS AND MATERIAL.

Please refer to drawings.

4.0 RATINGS.

- 4.1 Current rating 1.0A AC/DC
- 4.2 Voltage rating 100 V AC/DC
- 4.3 Operating Temperature Range -55°C to +85°C
- 4.4 Humidity 95% R.H. Max.

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	MEM2066	Rev	B	Date	22/06/11
Product Description	Micro SD Memory Card Connector, SMT, Hinged, 1.90mm Profile.			Page	3
Doc Number	MEM2066	Prepared	SA	Checked	DR
				Approved	LH

6.1 Electrical Performance.

Item	Test Condition	Requirement
Contact Resistance	Mate dummy card and measure by dry circuit, 20mV Max. 10mA Max. In accordance with JIS C5402 5.4.	Less than 100 mΩ at end of test
Insulation Resistance	Apply 500V DC between adjacent pins or pin and ground. In accordance with JIS C5402 5.2/MIL-STD-202 Method 302.	Greater than 500 MΩ
Dielectric Strength	Apply 500V AC for 1 minute between adjacent terminals and ground. In accordance with JIS C5402 5.1/MIL-STD-202 Method 301.	No breakdown

6.2 Mechanical Performance.

Item	Test Condition	Requirement
Terminal and Nail Retention Force	Apply axial pull out at the speed rate of 25 ± 3 mm/minute.	0.98 N Min. /Pin (0.1 kgf Min. /Pin)
Repeated mate / un-mate	Insertion and extraction are repeated for 1000 cycles with the actual card at the speed rate of 400-600 cycles/hour.	Contact Resistance: 100 mΩ Max. with the dummy. Appearance: No damage
Temperature Rise	Carrying rated current load (UL 498)	Temperature rise: 30°C Max.
Vibration	Mate dummy card and subject to the following vibration conditions, for a period of 2 hours in each 3 mutually perpendicular axes, passing DC 1 mA during the test. Amplitude: 1.52 mm P-P Frequency: 10-55-10 Hz Shall be traversed in 1 minute. In accordance with MIL STD-202 method 201	Appearance: No damage Contact Resistance: 100 mΩ Max. Discontinuity: 1.0 microsec. Max.

PRODUCT SPECIFICATION

Part Number	MEM2066	Rev	B	Date	22/06/11
Product Description	Micro SD Memory Card Connector, SMT, Hinged, 1.90mm Profile.			Page	4
Doc Number	MEM2066	Prepared	SA	Checked	DR
				Approved	LH

Item	Test Condition	Requirement
Shock	Mate dummy card and subject to the following shock conditions. 3 shocks shall be applied along 3 mutually perpendicular axes, passing DC 1mA current during the test. (total of 18 shocks). Test pulse: Half Sine Peak Value: 490m/s ² Duration: 11ms In accordance with JIS C0041 / MIL-STD-202 Method	Appearance: No damage Contact Resistance: 100 mΩ Max. Discontinuity: 1.0 microsec. Max.
Temperature Cycling	Mate dummy card and subject to the following conditions for 5 cycles. Upon completion of the test exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 1 cycle: a) -55 3°C 30minutes b) +85 2°C 30minutes Transit time shall be within 3 minutes.	Contact Resistance: 100 mΩ Max.

6.3 Environmental Performance and Others.

Item	Test Condition	Requirement
Heat Resistance	Mate dummy card and exposed to 85 ±2°C for 96 hours. Upon completion of the exposure period. The specimens shall be conditions at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be conditions at ambient room conditions for 1 to 2 hours, after which the specified measurement shall be performed.	Appearance: No damage Contact Resistance: 100 mΩ Max.
Cold Resistance	Mate dummy card and exposed to -40 +2°C with 90~95% RH for 96 hours. Upon completion of the exposure period, the test specimens shall be conditions at ambient room conditions for 1 to 2 hours, after which the specified measurement shall be performed.	Appearance: No damage Contact Resistance: 100 mΩ Max.
Humidity	40 +2°C in temperature with 90~95% RH for 96 hours, after testing connector shall be left alone for 1 to 2 hours in an ambient room.	Appearance: No damage Contact Resistance: 100 mΩ Max.

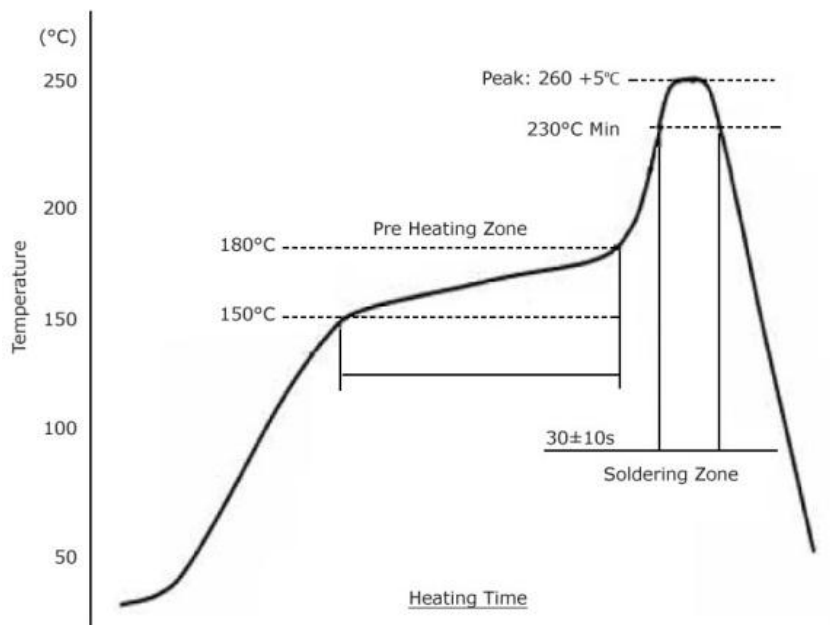
PRODUCT SPECIFICATION

Part Number	MEM2066	Rev	B	Date	22/06/11		
Product Description	Micro SD Memory Card Connector, SMT, Hinged, 1.90mm Profile.				Page	5	
Doc Number	MEM2066	Prepared	SA	Checked	DR	Approved	LH

Item	Test Condition	Requirement
Salt Spray	Mate dummy card and exposed to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gently wash or dip in running water, after which the specified measurements shall be performed. Salt Solution Concentration: 5% Spray Time: 48 hours Ambient Temperature: 35 +2°C In accordance with MIL-STD-1344.	Appearance: No damage Contact Resistance: 100 mΩ Max.
Solderability	Dip solder tails into the molten solder (held at 230 ±5°C) up to 0.5mm from the tip of tails for 30.5sec.	Solder wetting: 95% of immersed area must show no voids, pinholes.

Resistance to soldering heat:

The number of re-flow soldering is limited to two times. Appearance: No damage after 2 times of reflow.



Temperature Condition Graph
(Temperature on board pattern side)

PRODUCT SPECIFICATION

Part Number	MEM2066	Rev	B	Date	22/06/11		
Product Description	Micro SD Memory Card Connector, SMT, Hinged, 1.90mm Profile.			Page	6		
Doc Number	MEM2066	Prepared	SA	Checked	DR	Approved	LH

7.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

Test Group	Sample Groups									
	A	B	C	D	E	F	G	H	I	J
Examination of Products	1,5	1	1	1,5	1,5	1,5	1,5	1,5	1,5	1,5
Contact Resistance	2			2,4	2,4	2,4	2,4	2,4	2,4	2,4
Insulation Resistance	3									
Dielectric Withstanding Voltage	4									
Mating Force		2								
Unmating Force		3								
Contact Retention Force			2							
Temperature Rise				3						
Vibration					3					
Heat Temperature						3				
Cold Temperature							3			
Humidity								3		
Thermal Shock									3	
Salt Spray										3

PRODUCT SPECIFICATION

Part Number	MEM2066	Rev	B	Date	22/06/11		
Product Description	Micro SD Memory Card Connector, SMT, Hinged, 1.90mm Profile.			Page	7		
Doc Number	MEM2066	Prepared	SA	Checked	DR	Approved	LH

Revision details :-

Revision	Information	Page	Release Date
A	Specification Released	-	11/04/11
B	4.4 Storage Temperature – -35°C to +60°C Removed	2	22/06/11

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