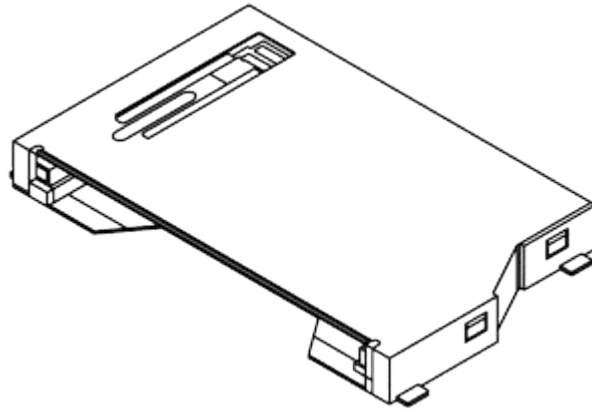


PRODUCT SPECIFICATION

Part Number	MEM1055	Rev	A	Date	11/06/09		
Product Description	SD Memory Card Connector, Push-Pull Type, SMT, Card entry Normal, 2.80mm Profile with Locating Post.				Page	1	
Doc Number	MEM1055	Prepared	BW	Checked	PN	Approved	DR



GCT

PRODUCT SPECIFICATION

Part Number	MEM1055	Rev	A	Date	11/06/09
Product Description	SD Memory Card Connector, Push-Pull Type, SMT, Card entry Normal, 2.80mm Profile with Locating Post.			Page	2
Doc Number	MEM1055	Prepared	BW	Checked	PN
				Approved	DR

1.0 SCOPE.

This specification covers performance, test and quality requirements for the SD Memory Card Connector Mem1055 (Push-Pull Type, SMT, 2.80mm Profile.).

2.0 PRODUCT NAME AND PART NUMBER.

Memory Card Connector, Push-Pull Type: Mem1055.

3.0 PRODUCT SHAPE, DIMENSIONS AND MATERIAL.

Please refer to drawings.

4.0 RATINGS.

Current rating	0.5A AC Max
Voltage rating	3.3VAC or 5VDC
Operating Temperature Range	-25°C to +90°C.
Storage Temperature	-40°C to +90°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 conditions shown below unless otherwise specified.

Temperature	15°C ~ +35°C
Relative Humidity	50% ~ 80% R.H.

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.

GCT

PRODUCT SPECIFICATION

Part Number	MEM1055	Rev	A	Date	11/06/09
Product Description	SD Memory Card Connector, Push-Pull Type, SMT, Card entry Normal, 2.80mm Profile with Locating Post.			Page	3
Doc Number	MEM1055	Prepared	BW	Checked	PN
				Approved	DR

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 IEC 512-2-2A	Less than 100 mΩ initial ≤40mΩ change at end of test
Insulation Resistance	Apply 500Volts DC between adjacent contacts of mated connectors for one minute in accordance with IEC 512-2-3A	Greater than 1000 MΩ
Dielectric Strength	Mate connectors and apply 500 V AC for 1 minute between adjacent terminal or ground, in accordance with IEC 512-2-4A	No creeping discharge or flash over.

6.2 Mechanical Performance.

Item	Test Condition	Requirement
Contact Force	Apply axial pull out /push in force on the connector assembled in the housing at a speed: 25 ± 3 mm/minute.	Push /Pull in force 40 N max
Durability	The connector should be mated and unmated for 10000 cycles with 0.6mm travel.	No evidence of physical damage. Contact Resistance ≤40mΩ change at end of test .
Vibration	Apply DC and 1mA to all contacts and subject the part to a 490 m/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 and in accordance with EIA-364-27.	No evidence of physical damage Contact Resistance ≤40mΩ change at end of test.
Mechanical Shock	Subject mated connector to 10-55-10 Hz traversed in 1 minute at 1.5 mm amplitude 2 hours each of three mutually perpendicular planes, 10 mA applied in accordance with MIL-STD-202, Method 201.	No electrical discontinuity greater than 1 μ sec. shall occur. No damage to product.

GCT

PRODUCT SPECIFICATION

Part Number	MEM1055	Rev	A	Date	11/06/09
Product Description	SD Memory Card Connector, Push-Pull Type, SMT, Card entry Normal, 2.80mm Profile with Locating Post.			Page	4
Doc Number	MEM1055	Prepared	BW	Checked	PN
				Approved	DR

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 MIL-STD-202, Method 107D, condition A.	No evidence of physical damage, discharge, flashes or corrosion in contact areas. Contact Resistance $\leq 40m\Omega$ change at end of test.	
Humidity Test	Mate connector and expose to temperature of 65±2°C with 80% RH for 48 hours then place in ambient temperature for 1 to 2 hrs. In accordance with IEC-512-6-11.		
Salt Water Spray	Subject mated connectors to 35±2°C and 3% salt condition for 48hours. Test in accordance with MTL-STD-883A, Method 1009,		
Temperature Life (High)	Subject product to 85 ± 2°C for 96 hours continuously in accordance with MIL-STD-202, Method 108.		
Temperature Life (Low)	Subject product to -40°C for 168 hours continuously in accordance with MIL-STD-202, Method 108.		
Solderability	Dip solders tails into molten solder, held at a temperature of 260±5°C for 3±0.5 secs, in accordance with MIL-STD-202.		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.

GCT

PRODUCT SPECIFICATION

Part Number	MEM1055	Rev	A	Date	11/06/09		
Product Description	SD Memory Card Connector, Push-Pull Type, SMT, Card entry Normal, 2.80mm Profile with Locating Post.				Page	5	
Doc Number	MEM1055	Prepared	BW	Checked	PN	Approved	DR

In IR-reflow:

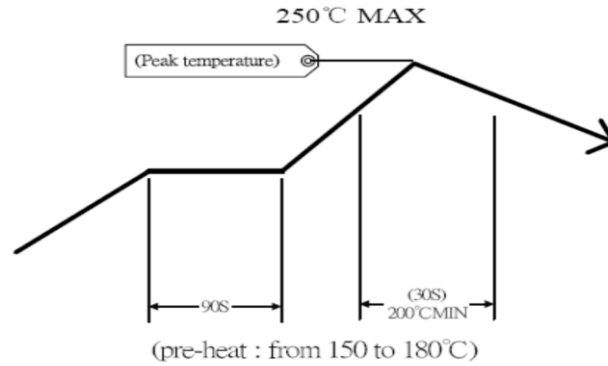


Fig.1. Recommended Reflow Temp. Profile

7.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

Intentionally left blank.
Table to be added.

GCT

Contact details

Asia Pacific

Global Connector Technology HK Limited
Unit 1204, 12/F, Fortress Tower,
250 King's Road
North Point,
Hong Kong, PRC.

Tel: +852 2578 9030
Fax: +852 2578 9000
Email: sales@gct-apac.com

Americas

Global Connector Technology, Inc.
3 Industrial Park Road,
Medway, MA 02053
USA

Tel: +1 508-570-2438
E-mail: sales@gct-americas.com

Europe

Global Connector Technology Europe Limited
7 Sutherland Court
Brownfields
Welwyn Garden City, Hertfordshire
AL7 1BJ
United Kingdom.

Tel: +44 (0)1707 321122
Fax: +44 (0)1707 321121
E-mail: sales@gct-europe.com

Global Connector Technology Limited makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice. Errors and Omissions Excepted.

GCT

www.globalconnectortechnology.com