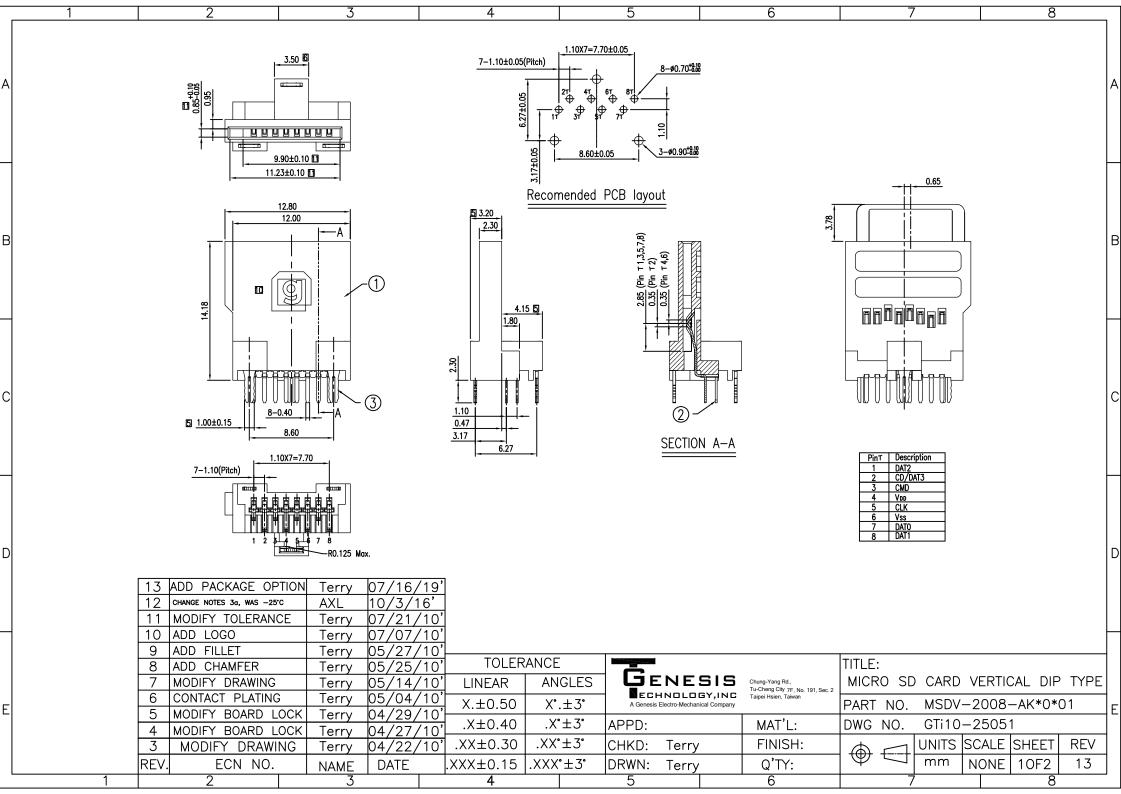
	SPECIFICATION FOR AP	
USTOMER:		
ART NAME:		
ART NO:	MSDV-2008-AKA0T01	REVISION: A
DESCRIPTION:	MICRO SD CARD VERTICAL	DIP TYPE
	MANUFACTURE SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY:		
DATE:		
евів Тесн Есеті , No. 191, Sec. 2, C		
Cheng City, Taipei H		



1	2	3	4	5	6	7		8
b. Curre c. Insule d. Diele	al: age Rating: 50VAC (r.m ent Rating: 0.5Amperes actin Resistance: 1000 ectric Withstand Voltage act Resistance: 100 m	s. DM ohms min. initial. e: AC 500V/1 minute.			☑ <u>PART. NUMBE</u> 3 <u>MSDV-20</u> ① ② ③	<u> </u>		Α
 Mechanica. Matea. Matea Conta Board Hous Platir Conta unde Board c. Dural d. Matir Unme e. Solde 	ical: acts: Phosphor Bronze d Lock: Brass, T=0.3m sing Flammability Rating acts: Gold plated 12u" erplated overall. d Lock: Tin plated 80u ibility: 10,000 Cycles. ng force: 25N Max. lating force: 1.5N Min. erability: More than 90	, T=0.2mm. nm. g: PBT, Black, UL94V-(', Solder tail Tin plated u", 50u" nickel underplo % of solderable area	80u", 50u'' nickel ated overall.		2. TYPE	RO SD CARD. SD CRAD VERTICAL OSITION	DIP TYP	,E –
3. Environn [12] a. Oper Storc b. Stead c. Therr d. Vibra	mental: age Temperature: -4 dy State Humidity: 909 mal Shock: 5 cycles o ation Resistance: With o Freque Accele Sweep Durati Specin act Resistance: With du	%~95% humidity on 40: f _55°C to 85°C. dummy card applying [ency: 10-2000Hz eration: 20m/s ² o rate: 10-2000-10Hz ion: 50min.(10 cyc) men to be excited alor ummy card applying DC	±2°C for 96hours. DC 100mA, in 5min. ng X,Y,and Z axes.(toto 100mA,	al:150min)	A: PBT 5. INSULATOR K: BLACK 6. CONTACT F A: GOLD F 7. SHIELD PL	COLOR PLATING PLATING 12u' ATING		с
f. After 4. Compli	Acceler Acceler Impact 9 total • test, contact resistan	Wavéform: Half sinéwav ation: 490m/s² duration: 11msec. impacts delivered 3 e ice increase 40m ohms	e ach along X,Y, and Z		0: NONE S 8. SHIELD PL T: TRAY R: TAPE R	ATING EEL		E
					PART DWG		SHEET 2 OF 2	REVISION SEE SHEET 1
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В

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1 SCOPE

This specification covers the performance requirements of the MICRO SD CARD Connector.

2 APPLICATION DOCUMENT

This following documents form a part of this specification to this extent specified herein. In the event of conflict between the requirements of the specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

3 REQUIREMENTS

3.1 DESIGN AND CONSTRUCTION

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing.

3.2 MATERIAL

A. Housing	: PBT ,Black, UL94V-0
B. Contact s	: Phosphor bronze,T=0.2mm,Gold plated 12u",Solder tail Tin plated 80u", 50u"
	Nickel underplated overall.
C. Board Lock	: Brass, T=0.3mm, Tin plated 80u", 50u" Nickel underplated overall

3.3 RATINGS

А.	Current rating	: 0. 5 Amps
В.	Voltage rating	:50VAC (r.m.s)
C.	Operating temperature	∶-25°C to +85°C.

3.4 STORAGE CONDITIONS

temperature : $25 \pm 5^{\circ}$ C ; Humidity : 50% - 70% Storage time : Should not exceed 180 days.

3.5 CONDITION OF FLOW , BY HAND AND REFLOW

Soldering process: 260° C, 10 sec (pre-heat= $120 \pm 10^{\circ}$ C, 120 sec) By hand: $350 \pm 5^{\circ}$ C, 3 ± 0.5 sec

3.6 MEASURING CONDITIONS

All measurements and test shall be made at a temperature 10° C to 35° C with a relative humidity of 45%RH to 85%RH under standard atmospheric pressure unless otherwise specified conditions.

3.7 ELECTRICAL PERFORMANCE

GENESIS TECH ELECTRONICS INC.

PRODUCT TEST REPORT GENESIS PN: GTi10-25051

Parameter	Procedure	Requirement
Insulation resistance	Measurements shall be made following application of DC 500V potential across terminals and across terminals and frame for 1 minute.	1000M Ω minimum
Dielectric withstanding voltage	500V AC/RMS (50Hz or 60Hz)shall be applied across terminals and across terminals and frame for 1 minute	There shall be no breakdown
Contact resistance	Being measured at 1KHz small current and voltage(20mA,20mV) by contact resistance meter.	Contact resistance: 100 m Ω max initial.

3.8 MECHANICAL PERFORMANCE

Parameter	Procedure	Requirement
Insertion and extraction force	Insert plug gauge into the specimen and extract for test, and then measure the insertion and extraction force.	Insertion force: 25 N Max Extraction force :1.5N Min
Durability	10,000 cycles of operation at a rate of 25mm per minute with unloading	 (1) Contact resistance: 100m Max. (2) Insertion force: 25N Max (3) Extraction force : 1.5N Min

3.9 ENVIRONMENTAL PERFORMANCE

Parameter	Procedure	Requirement	
Vibration	With dummy card applying DC 100mA, Frequency: 10-2000Hz Acceleration: 20m/s 2 Sweep rate: 10-2000-10Hz in 5min. Duration: 50min.(10 cyc) Specimen to be excited along X,Y,and Z axes.(total:150min)	Contact resistance: 40 m Ω Max	
Humidity	Subject mated connectors to 96 hours at 40°C with 90% RH to 95% RH. Test after keeping in normal condition for 30 minutes	Contact resistance:40 m Ω Max	
Temperature life	Subject mated connectors to temperature life at +70°C for 96 hours.	Contact resistance:40 m Ω Max	
Thermal shock	Subject mated connectors to 5 cycles between –55°C and +85°C	Contact resistance:40 m Ω Max	
Salt spray	Subject mated connector to ambient according ASTM 117 for 4 hours	Contact resistance:40 m Ω Max	

GENESIS TECH ELECTRONICS INC.

PRODUCT TEST REPORT GENESIS PN: GTi10-25051

Solderability	The tip of the terminals shall be dipped 2mm in the solder bath at temperature of 245 °C For 3 seconds	More than 90% of solderable area shall be covered
Soldering profile	Solder temperature 260°C for 10 seconds	Without deformation of case or excessive looseness of terminals electrical characteristics shall be satisfied