



D PCB LAYOUT (BOTTOM VIEW)
TOLERANCE ±0.05

RoHS Compliant

TOLERANCE	
LINEAR	ANGLES
X.±	X'±
.X±0.3	.X'±
.XX±0.25	.XX'±
.XXX±	.XXX'±

GENESIS
TECHNOLOGY, INC
a Genesis Electro-Mechanical Company

1015 GRANT STREET S.E.
ATLANTA, GA 30315

TITLE:		1394 4P STACKED DIP TYPE			
PART NO.		M1394-R701XXXX			
DWG NO.		SC-10275			
UNITS	SCALE	SHEET	REV		
MM	NONE	1 OF 2	N		

<input type="checkbox"/>	SEE SHEET 2		
REV	ECN NO.	NAME	DATE

APPD:	MAT'L:
CHKD:	FINISH:
DRWN: AXL	Q'TY:

Order Information:

M1394-R701 XX XX

- GOLD PLATING OPTION
 - 01: GOLD FLASH
 - 02: GOLD 5u"
 - 03: GOLD 10u"
 - 04: GOLD 15u"
 - 05: GOLD 30u"
- INSULATOR COLOR
 - 01: BLACK
 - 02: WHITE
- TOOLING SERIES
- RECEPTACLE
- MINI 1394

J Notes:

1. Electrical:
 - a. Voltage Rating: 100VDC/AC(r.m.s)
 - b. Current Rating: 0.5Amperes.
 - c. Insulation Resistance: 100M ohms min.
 - d. Dielectric Withstand Voltage: DC 100±10V/1 min.
- M** e. Contact Resistance: 50 m ohms max initial.
2. Mechanical:
 - a. Material:
 - Contacts: Phosphor Bronze.
 - Housing/Flammability Rating: LCP+30%G/F,UL94V-0
 - Front shell: SPCC.
 - Back shell: SUS 304.
 - b. Plating:
 - Contacts: Gold plated optional. (See order information.)
 - 80u" TIN MIN. Plated at solder side, 30u" nickel underplated overall.
 - Front shell : 50u" Nickel.
 - Back shell : None-Plating
 - c. Durability:1394 500 Cycles.
 - d. Mating force: 1394 39N Max.
 - Unmating force: 1394 4.9N Min.
 - e. Coplanarity of SMT Leads: Not Applicable.
 - f. Solderability: More than 95% of solderable area shall be covered with solder after 5~10 seconds flux(No clean flux)deep.
 - g. Soldering Profile: 260°C±5°C for 5 seconds without remarkable deterioration.
3. Environmental:
 - a. Operating/Storage Temperature: -40°C to +85°C.
 - b. High Temperature Life: A temperature of 60±5°C for 96hours;
 - c. Cold Temperature Life: A temperature of -40±5°C for 96hours;
 - d. Salt Spray test shall be tested per ASTM 117 for 48 hours.
 - e. Temperature Cycling: 10 cycles of -55±5°C to 85±5°C
 - f. Steady State Humidity: testing as ANSI/EIA364-31A-83 for 96hours.
 - g. Thermal Shock: testing as ANSI/EIA364-32B-92.
 - h. Vibration: No discontinuities of 1us of longer duration when mated
 - 1394 conn. testing as ANSI/EIA364-28A-83
 - i. Resistance to Soldering Heat: Can resistance 230°C±5°C for 60±3 seconds
 - M** j. After enviromental test, connector contact resistance should not increase to 80m ohms max. and the end-end conductor resistance to be 30milliohm max. and meet IR and DWV as initial.
4. Compliance:
 - L** a. Standard: IEEE1394a-2000 Amend 1.
 - b. RoHS Compliance.
5. Put insulator on the rear cover.
 - Material: FORMEX GK-10, 0.25 mm Thickness.

N	REVISE TOLERANCE	DANIEL	12/15/08'
M	MODIFY RESISTANCE NOTES AND REVISE SLOT LENGTH IN PCB LAYOUT WAS 1.7	DANIEL	7/01/08'
L	MODIFY DETAIL NOTES	DANIEL	5/17/08'
K	MODIFY PCB LAYOUT MODIFY INSULATOR AS NOTES 5	DANIEL	5/2/08'
J	ADD DETAIL NOTES AND INSULATOR AS NOTES 5	VEGAS	3/31/08'
I	MODIFY DIM.	DANIEL	3/18/08'
H	ADD HOLE AND GT LOGO AND CORRECT SHELL MATERIAL WAS PHOS.BRONZE	AXL	12/11/07
G	ADD SCREW HOLE M3x0.5 AND CHANGE DIM. WAS 14.7mm	AXL	10/15/07
F	CHANGE DIM. WAS 0.5	AXL	3/20/06'
E	ADD DIM AND PIN NO.	AXL	3/20/06'
D	MODIFY DRAWING	AXL	3/20/06'
C	ADD NICKEL PLATING	AXL	3/17/06'
B	ADD GOLD FLASH PLATING	AXL	3/17/06'
A	ISSUED	AXL	3/16/06'
REV	ECN NO.	NAME	DATE