630-019 to 630-500

PI-E00 70



J.S.T.

| | | |
|---|---|---|
| | TE-2204 | Date Issued: June 2, 1987 |
| Type of Document: TEST REPORT | Revised: D<br>ECN NO. 0364 | Date Revised: September 2, 1994 |
| Title Subject: VH CONNECTOR (PHOSPHOR BRONZE) | | Issued by: Engineering Dept. |



This report contains the results of general performance tests for VH connector(Phosphor Bronze).

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| Prepared by: | Checked by: | Reviewed by: | Approved by: |
|---|---|---|---|
| S. Musoya | Y. Yasuda | K. Nanaka | R. Ishinja |

J.S.T.

| TEST REPORT<br>VH CONNECTOR<br>(PHOSPHOR BRONZE) | TE-2204 |
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1. PART NAME & PART NUMBER

| Part Name | | Part Number |
|---|---|---|
| Contact | | SVH-21T-P1.1 |
| Housing | | VHR-*N |
| | | VHR-*M |
| Header | Top entry type | B*P-VH |
| | Side entry type | B*PS-VH |
| | | S*P-VH |

Note: * represents one or two figures indicating number of circuits.
Ex. 6-circuit housing --- VHR-6N

2. CONSTRUCTION, DIMENSIONS, MATERIAL & SURFACE FINISH

Construction and dimensions shall be in accordance with the referenced drawings. Material and surface finish shall be as specified below.

| | | Material | Surface Finish, etc. |
|---|---|---|---|
| Contact | | Phosphor Bronze | Tin-plated |
| Housing | | 6 Nylon | UL 94V-0 |
| Header | Post | Brass | Copper-underplated<br>Tin/Lead alloy-plated |
| | Wafer | 66 Nylon | UL 94V-0 |

3. CHARACTERISTICS

Current rating: 7 A AC, DC (When AWG #18 is applied)
Voltage rating: 250 V AC, DC
Temperature range: -25 ℃ to +85 ℃ (Including temperature rise.)
Applicable wire:
Conductor construction size: AWG #22, #20, #18
Wire insulation O.D.: 1.7 mm to 3.0 mm
Applicable printed circuit board (PCB): Thickness: 1.6 mm
Hole size: 1.65 +0.1/0 mm *1

Notes: *1 Recommended value in applying paper base, epoxy resin for PCB material and drill hole. Torelance depends on PCB material and the work method.

2 Wire conductor shall be tin-plated soft copper wire (stranded wire).

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4. SPECIMEN

| Part Name | Part Number |
|---|---|
| Contact | SVH-21T-P1.1 |
| Housing | VHR-*N |
| Header Top entry type | B*P-VH |

Note: * denotes number of circuits.

5. TEST CONDITIONS

5.1 Unless otherwise specified, tests and measurements shall be conducted under the following ambient conditions.

Temperature: 15 to 35 ℃
Relative humidity: 25 to 85 %

5.2 For environmental test, connector assembled for actual use shall be used. Wire of AWG #20 UL1007 style shall be used.

6. REQUIREMENTS, TEST METHODS & TEST RESULTS

6.1 Appearance

Requirements: There shall be no crack, no deformation nor discoloration which may affect the performance.

Test method: Inspected with naked eyes before and after the environmental tests.

Test results: Good.

6.2 Mechanical Test

6.2.1 Insertion Force(I.F.) & Withdrawal Force(W.F.)

Requirements:

(N)

| Number of circuits | At initial | | At 50th |
|---|---|---|---|
| | I.F. [max.] | W.F. [min.] | W.F. [min.] |
| Single | 9.8 | 1.96 | 0.98 |
| 2 | 19.6 | 3.92 | 1.96 |
| 3 | 29.4 | 5.88 | 2.94 |
| 4 | 39.2 | 7.84 | 3.92 |
| 5 | 44.1 | 9.80 | 4.90 |
| 6 | 53.9 | 12.7 | 6.86 |
| 7 | 58.8 | 15.7 | 8.82 |
| 8 | 68.6 | 18.6 | 10.8 |
| 9 | 73.5 | 21.6 | 12.7 |
| 10 | 78.4 | 24.5 | 14.7 |

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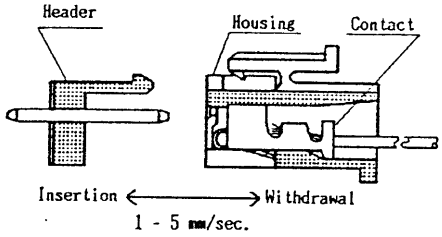
Test method: A housing with contact(s) and a header shall be mated and unmated on a same axis. Initial insertion and withdrawal forces and withdrawal force at 50th shall be measured.
Housing lock shall be removed.




Test results:

(N)

| No. of circuits | | At Initial I.F. | At Initial W.F. | At 50th W.F. |
|---|---|---|---|---|
| Single | Max. | 4.90 | 4.90 | 4.90 |
| | Min. | 3.92 | 2.94 | 1.96 |
| | Ave. | 4.31 | 3.82 | 3.33 |
| 2 | Max. | 10.8 | 10.8 | 7.68 |
| | Min. | 7.84 | 6.86 | 4.90 |
| | Ave. | 9.41 | 8.33 | 6.76 |
| 3 | Max. | 14.7 | 13.7 | 13.7 |
| | Min. | 12.7 | 10.8 | 8.82 |
| | Ave. | 13.8 | 11.9 | 10.5 |
| 4 | Max. | 19.6 | 19.6 | 15.7 |
| | Min. | 13.7 | 13.7 | 10.8 |
| | Ave. | 18.2 | 16.3 | 13.1 |
| 5 | Max. | 27.4 | 23.5 | 25.5 |
| | Min. | 23.5 | 19.6 | 16.7 |
| | Ave. | 25.2 | 21.7 | 20.2 |
| 6 | Max. | 31.4 | 32.3 | 24.5 |
| | Min. | 28.4 | 24.5 | 15.7 |
| | Ave. | 29.2 | 28.3 | 20.0 |
| 7 | Max. | 41.2 | 33.3 | 25.5 |
| | Min. | 30.4 | 28.4 | 29.6 |
| | Ave. | 25.6 | 30.5 | 22.5 |
| 8 | Max. | 41.2 | 41.2 | 31.4 |
| | Min. | 37.2 | 34.3 | 21.6 |
| | Ave. | 39.9 | 37.2 | 27.0 |
| 9 | Max. | 50.0 | 43.1 | 38.2 |
| | Min. | 43.1 | 36.3 | 27.4 |
| | Ave. | 46.9 | 40.9 | 33.5 |
| 10 | Max. | 54.9 | 51.9 | 34.3 |
| | Min. | 48.0 | 37.2 | 23.5 |
| | Ave. | 51.1 | 43.4 | 28.5 |

N=20

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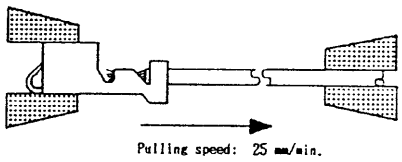
6.2.2 Crimp Tensile Strength

Requirements:

| | |
|---|---|
| AWG #22 (0.33mm²) | 44.1 N min. |
| AWG #20 (0.52mm²) | 63.7 N min. |
| AWG #18 (0.82mm²) | 78.4 N min. |

Test method: Pulling load shall be applied between a correctly crimped contact and wire at the constant speed of 25 mm per minute. The load to pull the wire out of the contact or break the wire shall be measured.




Test results:

(N)

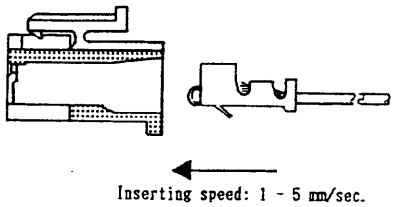
| Wire size | Max. | Min. | Ave. |
|---|---|---|---|
| AWG #22 | 98.0 | 82.3 | 90.5 |
| AWG #20 | 143 | 136 | 139 |
| AWG #18 | 200 | 188 | 194 |

N=20

6.2.3 Contact Insertion Force

Requirements: 14.7 N max.

Test method: The force required to insert a crimped contact into a housing shall be measured.
Inserting speed shall be 1 to 5 mm per second.




Test results:

(N)

| Max. | Min. | Ave. | |
|---|---|---|---|
| 6.86 | 4.90 | 5.98 | N=20 |

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6.2.4 Contact Retention Force

Requirements: 29.4 N min.

Test method: A crimped contact mounted in a housing shall be pulled in an alignment at a constant speed of 1 to 5 mm per second. The load to pull the contact out of the housing shall be measured.

Test results:

(N)

| Max. | Min. | Ave. | |
|---|---|---|---|
| 94.1 | 54.9 | 71.1 | N=20 |

6.2.5 Post Retention Force

Requirements: 29.4 N min.

Test method: The end of a post shall be pushed in a perpendicular to wafer at the constant speed of 1 to 5 mm per socond. The load to make the post start moving shall be measured.

Test results:

(N)

| Max. | Min. | Ave. | |
|---|---|---|---|
| 80.4 | 51.9 | 67.5 | N=20 |

6.2.6 Housing Lock Strength

Requirements: 2-circuit: 14.7 N min.
3 to 10-circuit: 49.0 N min.

Test method: Pulling load shall be applied to a housing in the direction that the housing separates from a header at the constant speed of 1 to 5 mm per second. The load required to separate shall be measured.

Test results:

(N)

| No. of circuits | Max. | Min. | Ave. |
|---|---|---|---|
| 2 | 26.5 | 24.5 | 25.3 |
| 3 to 10 | 100 | 87.2 | 93.8 |

N=20

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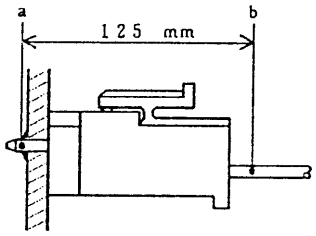
6.3 Electrical Test

6.3.1 Contact Resistance

Requirements: Initial: 10 mΩ max.
After environmental tests: 20 mΩ max.

Test method: Electrical resistance between points a and b shown in the figure below shall be measured under the following conditions.




Test current: 10 mA (DC)
Open voltage: 20 mV max.
Wire: AWG #20

Test results: See items 6.4.1 - 6.4.7.

6.3.2 Current Continuity

Requirements: There shall be no current discontinuity longer than 1 microsecond during a vibration test.

Test method: Each circuit of a connector shall be connected in series. Current dicontinuity longer than 1 microsecond during a vibration test shall be detected by continuity meter.

Test results: See item 6.4.2.

6.3.3 Insulation Resistance

Requirements: Initial: 1000 MΩ min.
After humidity test: 500 MΩ min.
After thermal shock test: 500 MΩ min.

Test method: 500 V DC shall be applied between the outer surface of a housing and a contact and also between adjacent contacts to measure insulation resistance.

Test results: See items 6.4.3 and 6.4.5.

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6.3.4 Dielectric Withstanding Voltage

Requirements: There shall be no breakdown nor flashover.

Test method: Initially 1500 V AC (rms) and after a humidity and a thermal shock tests 1000 V AC(rms) shall be applied between the outer surface of housing and a contact and also between adjacent contacts for one minute.

Test results: See items 6.4.3 and 6.4.5.

6.4 Environmental Test

6.4.1 Durability

Requirements: Contact resistance shall be 20 milliohms max. after the test.

Test method: A housing with contacts and a header shall be mated and unmated. After repeated 50 cycles, contact resistance shall be measured.

Test results:

(mΩ)

| Test item | Initial | | | After test | | |
|---|---|---|---|---|---|---|
| Contact resistance | Max. | Min. | Ave. | Max. | Min. | Ave. |
| | 5.4 | 5.2 | 5.28 | 6.0 | 5.3 | 5.50 |

N=20

* Data show the values after 100 cycles.

6.4.2 Vibration

Requirements: Contact resistance shall be 20 milliohms max. after the test. There shall be no current discontinuity longer than 1 microsecond during the test.

Test method: A mated connector shall be mounted on a PCB and subjected to a vibration test of the following conditions. During the test, current continuity shall be checked. After the test, contact resistance shall be measured.

Frequency: 10-55-10 Hz/min.
Amplitude: 1.52 mm
Direction: 1. Axis of up and down
2. Axis of right and left
3. Axis of front and back
Period: 2 hours for each direction

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Test results:

(mΩ)

| Test item | Initial | | | After test | | |
|---|---|---|---|---|---|---|
| Contact resistance | Max. | Min. | Ave. | Max. | Min. | Ave. |
| | 5.4 | 5.1 | 5.27 | 5.6 | 5.4 | 5.50 |

N=20

Current continuity:
There was no current discontinuity during the test.

6.4.3 Humidity (Steady State)

Requirements: Contact resistance shall be 20 milliohms max. after the test. Insulation resistance shall be 500 megohms min. after the test. There shall be no breakdown nor flashover on the dielectric withstanding voltage test.

Test method: A mated connector shall be placed in a humidity chamber of the following conditions. After the test, contact resistance, insulation resistance and dielectric withstanding voltage shall be measured.

Temperature: 40 ± 2 ℃
Relative humidity: 90 to 95 %
Period: 240 hours continuously

Test results:

(mΩ)

| Test item | Initial | | | After test | | |
|---|---|---|---|---|---|---|
| Contact resistance | Max. | Min. | Ave. | Max. | Min. | Ave. |
| | 5.4 | 5.2 | 5.31 | 5.5 | 5.2 | 5.29 |

N=20

(MΩ)

| Test item | Housing-Contact | | Contact-Contact | |
|---|---|---|---|---|
| Insulation resistance | Initial | After test | Initial | After test |
| | 10000 min. | 5000 min. | 10000 min. | 5000 min. |

N=10

| Test item | Housing-Contact | | Contact-Contact | |
|---|---|---|---|---|
| D.W.V.* | Initial | After test | Initial | After test |
| | Good | Good | Good | Good |

N=10

* D.W.V.: Dielectric withstanding voltage

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6.4.4 Heat Aging

Requirements: Contact resistance shall be 20 milliohms max. after the test.

Test method: A mated connector shall be placed in a heat oven of the following conditions. After the test, contact resistance shall be measured.

Temperature: 85 ± 2 ℃
Period: 250 hours continuously

Test results:

(mΩ)

| Test item | Initial | | | After test | | |
|---|---|---|---|---|---|---|
| | Max. | Min. | Ave. | Max. | Min. | Ave. |
| Contact resistance | 5.5 | 5.2 | 5.35 | 5.5 | 5.2 | 5.35 |

N=20

6.4.5 Thermal Shock

Requirements: Contact resistance shall be 20 milliohms max. after the test. Insulation resistance shall be 500 megohms min. after the test. There shall be no breakdown nor flashover on the dielectric withstanding voltage test.

Test method: A mated connector shall be subjected to a thermal shock test of the following conditions. After the test, contact resistance, insulation resistance and dielectric withstanding voltage shall be measured.

1 cycle consists of:
-25 0/-3 ℃ for 30 minutes
+85 +3/0 ℃ for 30 minutes
Times of cycles: 25 cycles

Test results:

(mΩ)

| Test item | Initial | | | After test | | |
|---|---|---|---|---|---|---|
| | Max. | Min. | Ave. | Max. | Min. | Ave. |
| Contact resistance | 5.5 | 5.1 | 5.32 | 5.5 | 5.1 | 5.35 |

N=20

(MΩ)

| Test item | Housing-Contact | | Contact-Contact | |
|---|---|---|---|---|
| | Initial | After test | Initial | After test |
| Insulation resistance | 10000 min. | 5000 min. | 10000 min. | 5000 min. |

N=10

| Test item | Housing-Contact | | Contact-Contact | |
|---|---|---|---|---|
| | Initial | After test | Initial | After test |
| D.W.V.* | Good | Good | Good | Good |

N=10

* D.W.V.: Dielectric withstanding voltage

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|---|---|
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6.4.6 Salt Spray

Requirements: Contact resistance shall be 20 milliohms max. after the test.

Test method: A mated connector shall be subjected to a salt spray test of the following conditions. After the test, the specimen shall be washed with running water and dried naturally before the measurement of contact resistance.

Temperature: 35 ± 2 ℃
Density: 5 % in weight
Period: 48 hours

Test results:

(mΩ)

| Test item | Initial | | | After test | | |
|---|---|---|---|---|---|---|
| | Max. | Min. | Ave. | Max. | Min. | Ave. |
| Contact resistance | 5.4 | 5.2 | 5.23 | 5.5 | 5.2 | 5.29 |

N=20

6.4.7 Hydrogen Sulfide Gas

Requirements: Contact resistance shall be 20 milliohms max. after the test.

Test method: A mated connector shall be subjected to hydrogen sulfide gas of the following conditions. After the test, contact resistance shall be measured.

Density: 3 ± 1 ppm
Temperature: 40 ℃
Period: 96 hours continuously

Test results:

(mΩ)

| Test item | Initial | | | After test | | |
|---|---|---|---|---|---|---|
| | Max. | Min. | Ave. | Max. | Min. | Ave. |
| Contact resistance | 5.5 | 5.3 | 5.34 | 5.4 | 5.3 | 5.33 |

N=20

* Data show the values after 240 hours.

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6.4.8 Ammonia Gas

Requirements: There shall be no defect such as crack caused by season cracking.

Test results: A mated connector shall be placed in a desiccator to be subjected to an ammonia gas test of the following donditions.

| | |
|---|---|
| Ammonia solution: | 1 % in weight |
| Solution volume: | 25 ml per one liter of desiccator volume |
| Period: | 72 hours |

Test results: There was no defect. N=10

6.4.9 Solderability

Requirements: Plating surface of solder-dipping section shall be covered with smooth solder.

Test method: Fluxed soldering section of header shall be dipped in solder of the following conditions.

| | |
|---|---|
| Solder temperature: | 230 ± 5 ℃ |
| Immersion period: | 3 ± 0.5 seconds |
| Flux: Rosin (25%) mathanol solution | |

Test results: Good. N=10

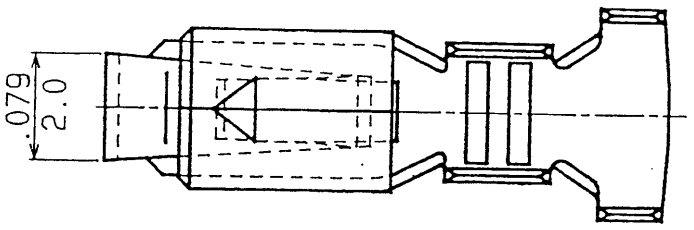
6.4.10 Resistance to Soldering Heat

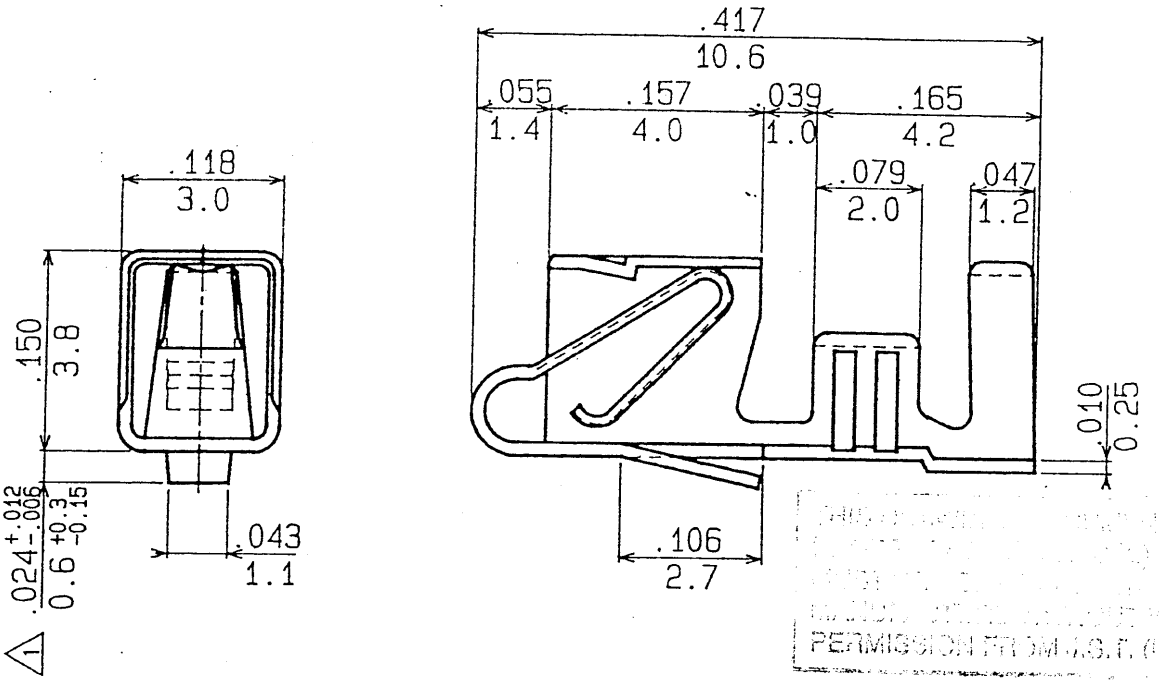
Requirements: There shall be no deformation nor damage which may affect the performance.

Test method: A specimen shall be mounted on a PCB (inserted only) and subjected to a resistance to soldering heat test of the following conditions.

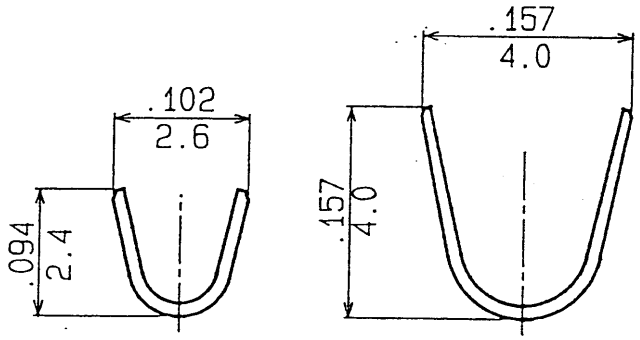
| | |
|---|---|
| Solder temperature: | 260 ± 5 ℃ |
| Immersion period: | 5 ± 0.5 seconds |

Test results: Good. N=10






WIRE BARREL INSULATION BARREL

NOTE

1. Unless otherwise specified, tolerances are:
   L= 0~.197/5.0 : ±.012/±0.3
   L=.201/5.1~ : ±.016/±0.4
2. Dimensions are in INCH/MM.

| No. | NAME | MATERIAL | REMARKS |
|---|---|---|---|
| | CONTACT | PHOSPHOR BRONZE t.010 t0.25 | TIN-PLATED |

REVISIONS: 1 ··· '91.11.5 Y.O

J. S. T.

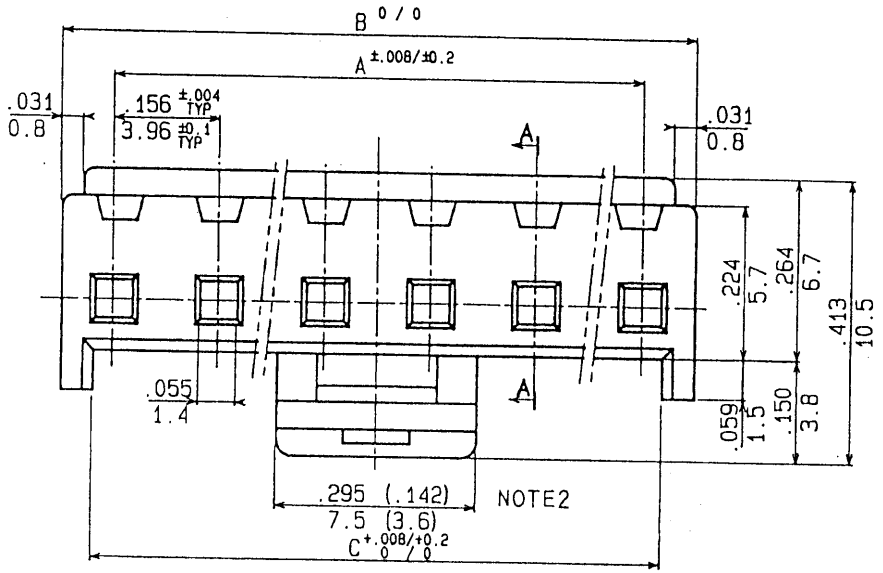
| APPROVED BY | CHECKED BY | DRAWN BY | SCALE | PROJECTION | DATE |
|---|---|---|---|---|---|
| NH | KM | Y.O | | 3rd | Aug. 25 1991 |

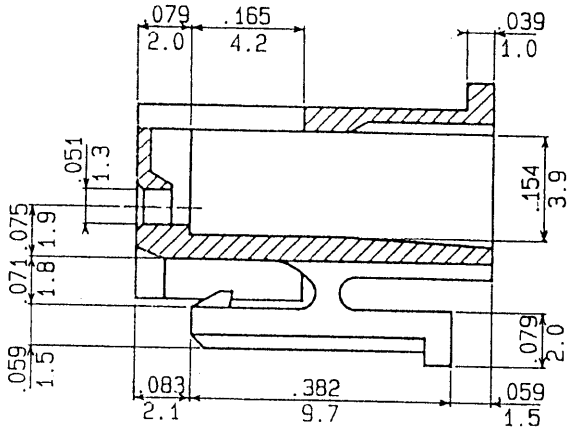
| | |
|---|---|
| PART NAME | VH CONNECTOR |
| PART No. | SVH-21T-P1.1 |
| DRAWING No. | KRD— 4711-2 |
| ISSUE | |



PI-E0070

0891011000N

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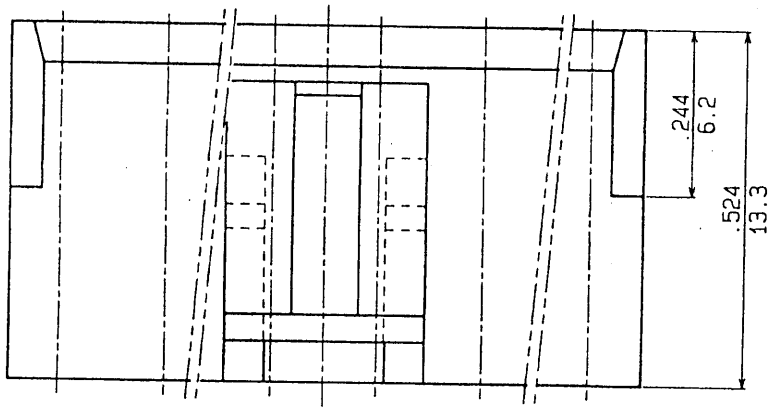
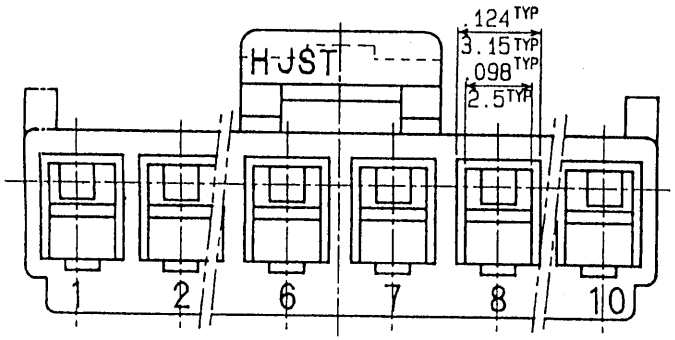



| Cir-cuits | A | B | C |
|---|---|---|---|
| 10 | 1.403/35.64 | 1.557/39.54 | 1.462/37.14 |
| 9 | 1.247/31.68 | 1.401/35.58 | 1.306/33.18 |
| 8 | 1.091/27.72 | 1.245/31.62 | 1.150/29.22 |
| 7 | .935/23.76 | 1.089/27.66 | .994/25.26 |
| 6 | .780/19.80 | .933/23.70 | .839/21.30 |
| 5 | .624/15.84 | .777/19.74 | .683/17.34 |
| 4 | .468/11.88 | .621/15.78 | .527/13.38 |
| 3 | .312/ 7.92 | .465/11.82 | .371/ 9.42 |
| 2 | .156/ 3.96 | .309/ 7.86 | .215/ 5.46 |

NOTE

1. Unless otherwise specified, tolerances are ±.012/±0.3.
2. ( )dimension is for 2-circuit housing.
3. Dimensions are in INCH/MM.

| No. | NAME | MATERIAL | REMARKS |
|---|---|---|---|
| | HOUSING | 6 NYLON | UL94V-0 |

REVISIONS

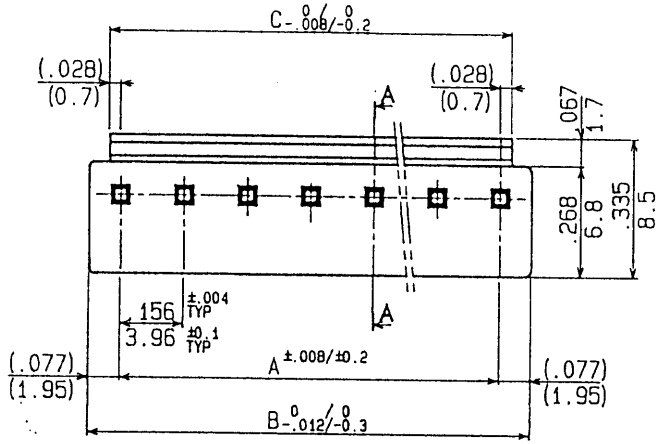
J. S. T.

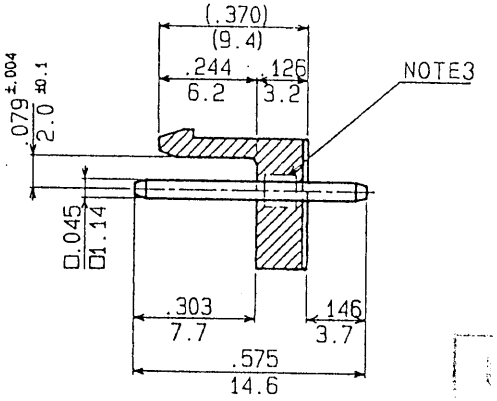
| APPROVED BY | CHECKED BY | DRAWN BY | SCALE | PROJECTION | DATE |
|---|---|---|---|---|---|
| | K.M | Y.O | | 3rd | Jun. 7 1991 |

| | |
|---|---|
| PART NAME | VH CONNECTOR |
| PART No. | VHR-( )N |
| DRAWING No. | KRD-3934-2 |
| ISSUE | |

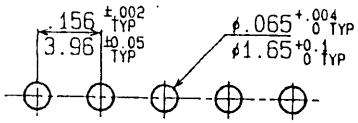
EC4109-0

PT-E0070

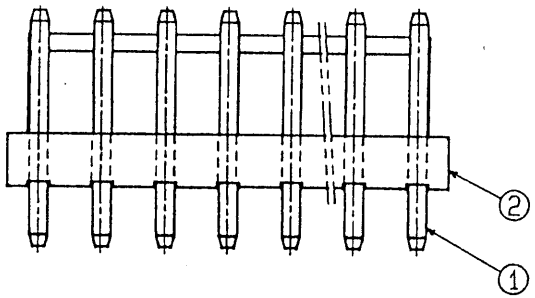



A-A SEC




P. C BOARD HOLE LAYOUT




| Circuits | A | B | C |
|---|---|---|---|
| 10 | 1.403/35.64 | 1.557/39.54 | 1.458/37.04 |
| 9 | 1.247/31.68 | 1.401/35.58 | 1.302/33.08 |
| 8 | 1.091/27.72 | 1.245/31.62 | 1.146/29.12 |
| 7 | .935/23.76 | 1.089/27.66 | .991/25.16 |
| 6 | .780/19.80 | .933/23.70 | .835/21.20 |
| 5 | .624/15.84 | .777/19.74 | .679/17.24 |
| 4 | .468/11.88 | .621/15.78 | .523/13.28 |
| 3 | .312/ 7.92 | .465/11.82 | .367/ 9.32 |
| 2 | .156/ 3.96 | .309/ 7.86 | .211/ 5.36 |

NOTE

1. Unless otherwise specified, tolerances ± .012/±0.3.
2. The deviation at the top of post shall be ± .006/±0.15.
3. Hatching part with holding construction.
4. Dimensions are in INCH/MM.

| No. | NAME | MATERIAL | REMARKS |
|---|---|---|---|
| 2 | WAFER | 66 NYLON | UL94V-0 |
| 1 | POST | BRASS | Copper-underplated tin-plated |

REVISIONS

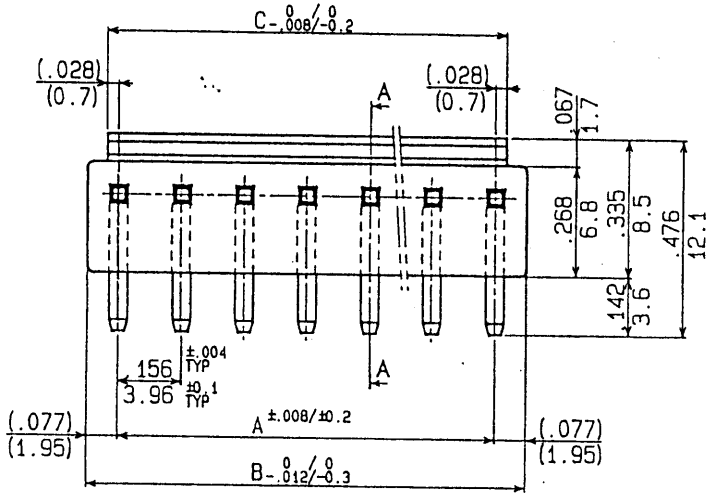
J. S. T.

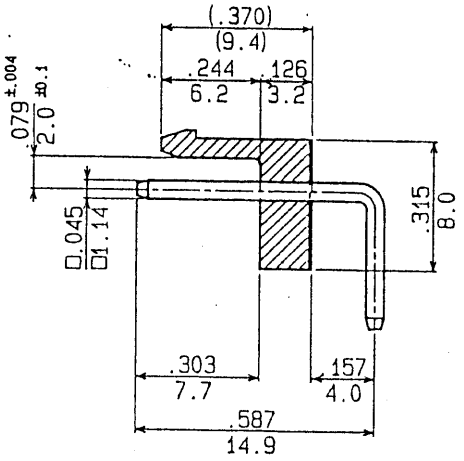
| APPROVED BY | CHECKED BY | DRAWN BY | SCALE | PROJECTION | DATE |
|---|---|---|---|---|---|
| T.T | K.M | Y.O | | 3rd | Jun. 7 1991 |

| | |
|---|---|
| PART NAME | VH CONNECTOR |
| PART No. | B( )P-VH |
| DRAWING No. | KRD-3933-2 |
| ISSUE | |

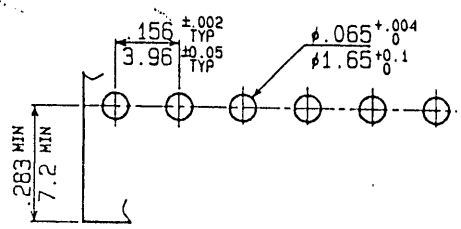


EC4109-0 PI-60070

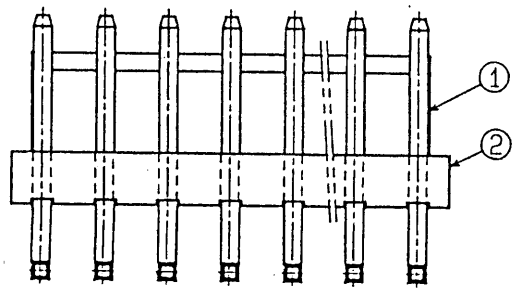



A-A SEC




P. C BOARD HOLE LAYOUT.




| Circuits | A | B | C |
|---|---|---|---|
| 10 | 1. 403/35. 64 | 1. 557/39. 54 | 1. 458/37. 04 |
| 9 | 1. 247/31. 68 | 1. 401/35. 58 | 1. 302/33. 08 |
| 8 | 1. 091/27. 72 | 1. 245/31. 62 | 1. 146/29. 12 |
| 7 | . 935/23. 76 | 1. 089/27. 66 | . 991/25. 16 |
| 6 | . 780/19. 80 | . 933/23. 70 | . 835/21. 20 |
| 5 | . 624/15. 84 | . 777/19. 74 | . 679/17. 24 |
| 4 | . 468/11. 88 | . 621/15. 78 | . 523/13. 28 |
| 3 | . 312/ 7. 92 | . 465/11. 82 | . 367/ 9. 32 |
| 2 | . 156/ 3. 96 | . 309/ 7. 86 | . 211/ 5. 36 |



NOTE

1. Unless otherwise specified, tolerances ±.012/±0.3.
2. The deviation at the top of post shall be ±.006/±0.15.
3. Dimensions are in INCH/MM.

| No. | NAME | MATERIAL | REMARKS |
|---|---|---|---|
| 2 | WAFER | 66 NYLON | UL94V-0 |
| 1 | POST | BRASS | Copper-underplated tin-plated |

J. S. T.

| APPROVED BY | CHECKED BY | DRAWN BY | SCALE | PROJECTION | DATE |
|---|---|---|---|---|---|
| TT | KM | Y. O | | 3rd | Jun. 11 1991 |

REVISIONS

| | |
|---|---|
| PART NAME | VH CONNECTOR |
| PART No. | B( )PS-VH |
| DRAWING No. | KRD-4098-2 |
| ISSUE | |



EC4109-0 PF-E0070

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Authorized Distributor

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