

|       |                          |    |      |      |       |                          |    |      |      |
|-------|--------------------------|----|------|------|-------|--------------------------|----|------|------|
| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
| △     |                          |    |      |      | △     |                          |    |      |      |
| △     |                          |    |      |      | △     |                          |    |      |      |

|                     |                             |                  |           |     |                           |
|---------------------|-----------------------------|------------------|-----------|-----|---------------------------|
| APPLICABLE STANDARD |                             |                  |           |     |                           |
| RATING              | OPERATING TEMPERATURE RANGE | - 25 °C TO 60 °C |           |     | STORAGE TEMPERATURE RANGE |
|                     | VOLTAGE                     | TM               | 125 V AC  |     | CURRENT                   |
|                     |                             | PWJ              | 10.5 V DC |     | TM                        |
|                     |                             |                  |           | PWJ | 2 A                       |

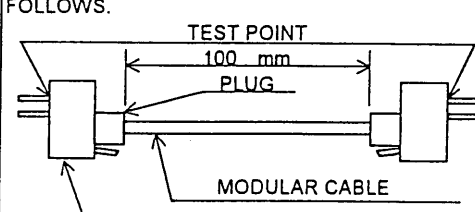
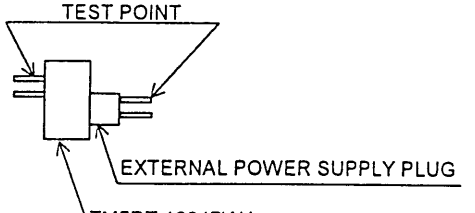
### SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

#### CONSTRUCTION

|                     |                                       |                       |                          |                          |
|---------------------|---------------------------------------|-----------------------|--------------------------|--------------------------|
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | <input type="checkbox"/> | <input type="checkbox"/> |
| MARKING             | CONFIRMED VISUALLY.                   |                       | <input type="checkbox"/> | <input type="checkbox"/> |

#### ELECTRIC CHARACTERISTICS

|                          |  |                            |                          |                          |
|--------------------------|--|----------------------------|--------------------------|--------------------------|
| CONTACT RESISTANCE (TM)  | 100 mA (DC OR 1000 Hz AC). MEASUREMENT POINTS SHALL BE AS FOLLOWS.<br><br>RECEPTACLE<br>(ONE EXAMPLE OF CONNECTOR CONFIGURATION IS SHOWN.)                                    | 200 mΩ MAX.                | <input type="checkbox"/> | <input type="checkbox"/> |
| CONTACT RESISTANCE (PWJ) | 100 mA (DC OR 1000 Hz AC). MEASUREMENT POINTS SHALL BE AS FOLLOWS.<br><br>EXTERNAL POWER SUPPLY PLUG<br>TM5RT-1204PWJ<br>(ONE EXAMPLE OF CONNECTOR CONFIGURATION IS SHOWN.) | 30 mΩ MAX.                 | <input type="checkbox"/> | <input type="checkbox"/> |
| INSULATION RESISTANCE    | 100 V DC.  | 100 MΩ MIN.                | <input type="checkbox"/> | <input type="checkbox"/> |
| VOLTAGE PROOF            | 500 V AC FOR 1 min.  | NO FLASHOVER OR BREAKDOWN. | <input type="checkbox"/> | <input type="checkbox"/> |

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#### MECHANICAL CHARACTERISTICS

|   |  |  |                          |                          |
|---|--|--|--------------------------|--------------------------|
| MECHANICAL OPERATION                          | 200 TIMES INSERTIONS AND EXTRACTIONS.  | ① CONTACT RESISTANCE<br>TM: 220 mΩ MAX.<br>PWJ: 100 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | <input type="checkbox"/> | <input type="checkbox"/> |
| CONTACT INSERTION AND EXTRACTION FORCES (PWJ) | OUTSIDE DIAMETER $\phi 4.8 \pm 0.06$ BY STEEL GAUGE.<br>INSIDE DIAMETER $\phi 1.75 \pm 0.06$ | INSERTION FORCE 20 N MAX.<br>5 N MIN.<br>EXTRACTION FORCE 15 N MAX.<br>4 N MIN.                            | <input type="checkbox"/> | <input type="checkbox"/> |

#### REMARKS

Unless otherwise specified, refer to JIS C 5402.

Note QT:Qualification Test AT:Assurance Test O:Applicable Test

|                   |                   |                   |                   |                   |                       |
|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------|
| 製図                | 検査                | 検図                | 立回                | 承認                | 出図                    |
| 技術<br>2.6.1<br>鈴木 | 検査<br>2.6.1<br>鈴木 | 検図<br>2.6.4<br>田中 | 立回<br>2.6.4<br>田中 | 承認<br>2.6.4<br>中沢 | HRS<br>4.16.01<br>USA |

|                                      |                            |                           |
|--------------------------------------|----------------------------|---------------------------|
| <b>HRS</b> HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET        | PART NO.<br>TM5RT-1204PWJ |
| CODE NO.(OLD)<br>CL                  | DRAWING NO.<br>ELC4-043053 | CODE NO.<br>CL222-3536-0- |
|                                      |                            | 1/2                       |

TC  
Q

# SPECIFICATIONS

| ITEM      | TEST METHOD   | REQUIREMENTS   | QT | AT |
|-----------|---|--|----|----|
| VIBRATION | FREQUENCY 10 TO 55 Hz, AMPLITUDE 1.5 mm, — m/s <sup>2</sup> AT 2 h, FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF — μs.<br>② CONTACT RESISTANCE                 | ○  | —  |
| SHOCK     | 490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.           | TM: — mΩ MAX.<br>PWJ: — mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | ○  | —  |

## ENVIRONMENTAL CHARACTERISTICS

|                              |   |   |   |   |
|------------------------------|---|---|---|---|
| DAMP HEAT (STEADY STATE)     | EXPOSED AT 60 °C, 90 TO 95 %, 500 h.  | ① CONTACT RESISTANCE<br>TM: — mΩ MAX.<br>PWJ: — mΩ MAX.<br>② INSULATION RESISTANCE<br>TM: 1 MΩ MIN.<br>PWJ: — MΩ MIN.<br>(AT HIGH HUMIDITY)<br>③ INSULATION RESISTANCE<br>TM: 10 MΩ MIN.<br>PWJ: — MΩ MIN.<br>(AT DRY)<br>④ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | ○ | — |
| RAPID CHANGE OF TEMPERATURE  | TEMPERATURE —55±3 → 5 TO 35 → 85±2 → 5 TO 35 °C<br>TIME 30 → 5 MAX → 30 → 5 MAX min UNDER 5 CYCLES. | ① CONTACT RESISTANCE<br>TM: — mΩ MAX.<br>PWJ: — mΩ MAX.<br>② INSULATION RESISTANCE: — MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  | ○ | — |
| CORROSION SALT MIST          | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   | ① CONTACT RESISTANCE<br>TM: — mΩ MAX.<br>PWJ: — mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS,  | ○ | — |
| DIP CONDITION                | PREHEAT TEMPERATURE 90°C ~ 130°C<br>SOLDER TEMPERATURE, 230±5 °C<br>IMMERSION DURATION 3 ± 0.5 s.   | NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.  | ○ | — |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, 260±5 °C FOR IMMERSION, DURATION, 5±1 s.  | NO DEFORMATION IN APPEARANCE OR SOLDERLESS ON CONTACT SURFACE ETC.  | ○ | — |

[ TM---- MODULAR JACK PORTION  
PWJ----EXTERNAL POWER SUPPLY JACK PORTION ]

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REMARKS

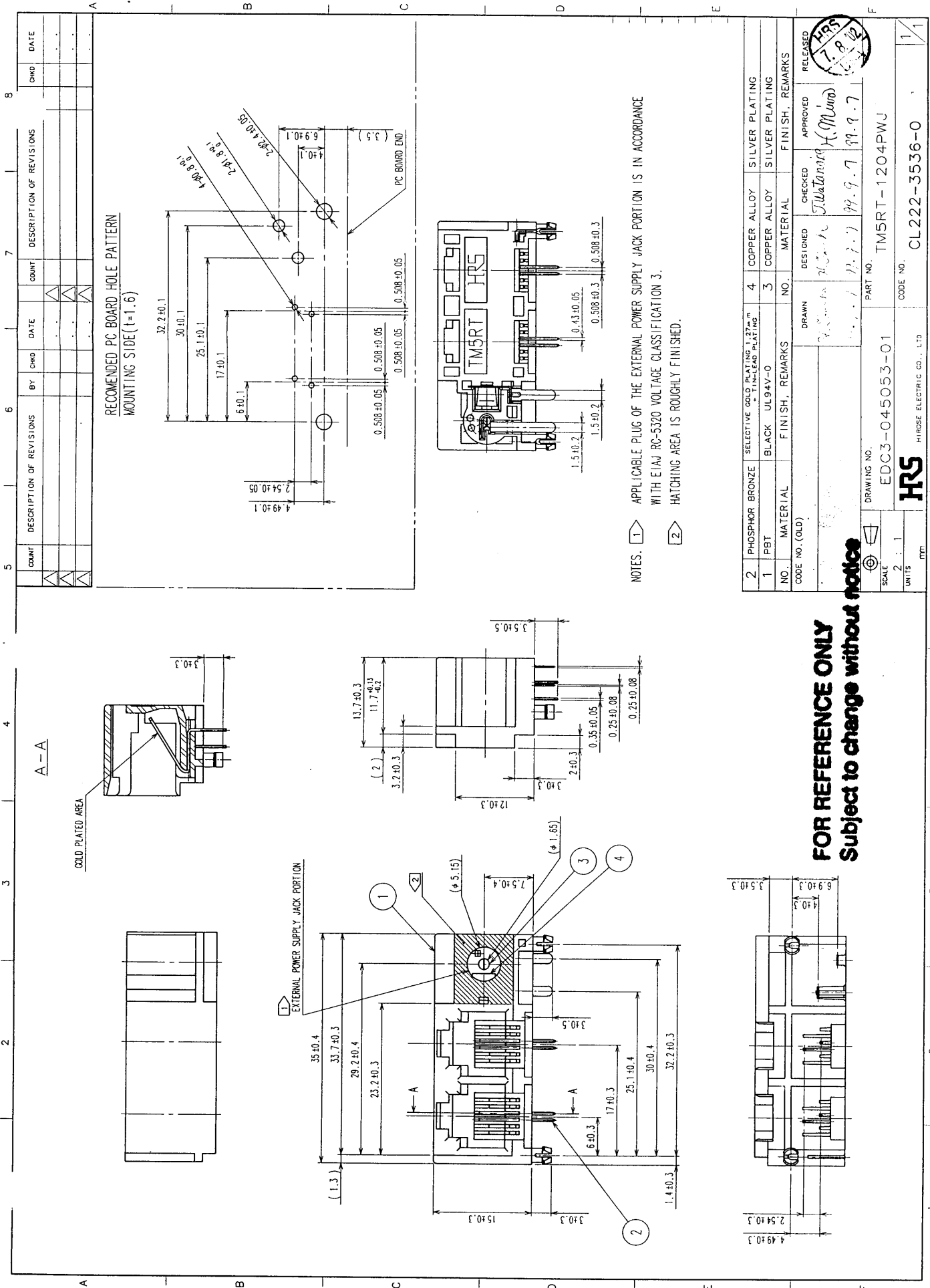
5/2/04 (高)

|                   |             |                   |                   |                  |                       |
|-------------------|-------------|-------------------|-------------------|------------------|-----------------------|
| 製 図               | 描 写         | 検 査               | 登 録               | 承認               | 出 図                   |
| 技術<br>2.6.4<br>鈴木 | 技術<br>2.6.4 | 技<br>2.6.4<br>田中孝 | 技<br>2.5.4<br>田中孝 | 技<br>2.5.4<br>中沢 | HRS<br>4.16.01<br>USA |

Unless otherwise specified, refer to JIS C 5402.

Note QT:Qualification Test AT:Assurance Test ○:Applicable Test

|                                      |                            |  |
|--------------------------------------|----------------------------|--|
| <b>HRS</b> HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET        | PART NO.<br>TM5 RT-1204PWJ                                       |
| CODE NO.(OLD)<br>CL                  | DRAWING NO.<br>ELC4-043053 | CODE NO.<br>CL222-3536-0- <span style="float: right;">2/2</span> |



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| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|----|------|------|-------|--------------------------|----|------|------|
|       |                          |    |      |      |       |                          |    |      |      |
|       |                          |    |      |      |       |                          |    |      |      |

| NO. | MATERIAL        | FINISH, REMARKS               | NO. | MATERIAL     | FINISH, REMARKS |
|-----|-----------------|-------------------------------|-----|--------------|-----------------|
| 2   | PHOSPHOR BRONZE | SELECTIVE GOLD PLATING 1.27µm | 4   | COPPER ALLOY | SILVER PLATING  |
| 1   | PBT             | BLACK UL94V-0                 | 3   | COPPER ALLOY | SILVER PLATING  |

|          |         |          |          |
|----------|---------|----------|----------|
| DESIGNED | CHECKED | APPROVED | RELEASED |
|          |         |          |          |

|                |               |
|----------------|---------------|
| DRAWING NO.    | PART NO.      |
| EDC3-045053-01 | TM5RT-1204PWJ |

|       |              |
|-------|--------------|
| SCALE | CODE NO.     |
| 2 : 1 | CL222-3536-0 |

|       |  |
|-------|--|
| UNITS |  |
| MM    |  |

|    |  |
|----|--|
| TO |  |
| Q2 |  |