

# **CHVM 1R5 Series**

## **RELIABILITY DATA**

Test results are typical data. Nevertheless the following results are considered to be reference data because all units have nearly the same characteristics.

| Item                         | Test Conditions   | The Number of Device Under Test | Criteria  | Result |
|------------------------------|---|---------------------------------|---|--------|
| Thermal Shock                | Low Temperature : -40°C<br>High Temperature : +125°C<br>Interval : 30minutes<br>Cycle : 100   | CHVM1R5-12-2000P 1pcs           | No abnormality in Electrical characteristics or external appearance, either before or after, the test.                              | Pass   |
| High Temperature Bias        | Input Voltage : Typ<br>Output Voltage : Typ<br>Output current : 100%<br>Temperature : +50°C<br>Time : 1000hours   | CHVM1R5-12-2000P 1pcs           | No abnormality in Electrical characteristics or external appearance, either before or after, the test.                              | Pass   |
| High Temperature Storage     | Temperature : +85°C<br>Test Time : 1000hours<br>No electricity  | CHVM1R5-12-2000P 1pcs           | No abnormality in Electrical characteristics or external appearance, either before or after, the test.                              | Pass   |
| Solderability                | Immerse in a solder bath(Sn-Ag-Cu).<br>Solder Bath Temperature : 245°C±5°C<br>Time : 3±1 second   | CHVM1R5-12-2000P 1pcs           | Solder adhesion rate is 95% or more.<br>In addition, there must be no pinholes or repelling, and it must be sufficiently wet.       | Pass   |
| Resistance to Soldering Heat | Immerse in a solder bath(Sn-Ag-Cu).<br>Solder Bath Temperature : 260°C±5°C<br>Time : 10 second<br><br>Soldering with soldering iron.<br>Solder Iron Temperature : 350±10°C<br>Time : 5 second | CHVM1R5-12-2000P 1pcs           | After the test, there shall be no abnormalities in the electrical characteristics and the joint between the terminal and the board. | Pass   |
| Terminal tensile strength    | Apply 1 kgf load for 10 ± 1 seconds in the axial direction of the pin.  | CHVM1R5-12-2000P 1pcs           | No missing pins, no broken pins.  | Pass   |
| Terminal bending             | Fix the body and apply a bending load of 0.5kgf to the terminal.  | CHVM1R5-12-2000P 1pcs           | No looseness, missing or broken pins.   | Pass   |
| Vibration                    | Amplitude : 10mm(Const)<br>Sweep Frequency : 5~10Hz<br>Directions : X,Y,Z<br>Time : 1hour<br><br>Acceleration : 2G<br>Sweep Frequency : 10~55Hz<br>Directions : X,Y,Z<br>Time : 1hour         | CHVM1R5-12-2000P 1pcs           | No abnormality in Electrical characteristics or external appearance, either before or after, the test.                              | Pass   |
| Shock                        | Shock Time : 11±5ms<br>Acceleration : 20G<br>Directions : X,Y,Z<br>Number of Times : 3  | CHVM1R5-12-2000P 1pcs           | No abnormality in Electrical characteristics or external appearance, either before or after, the test.                              | Pass   |