



THICK FILM CHIP NETWORK RESISTOR (PROTROUDE ELECTRODE)

STANDARD TESTING CONDITION

The standard testing conditions are at temperature +25°C, relative humidity 65% under unquestionable circumstance. Test may be conducted of 5°C to 35°C with relative humidity of 45% to 85% in testing and affixing ohm values. It may also be conducted under constant temperature and humidity. But the result of ohm value will require adjustment.

1. ADJUSTMENT OF OHM VALUES

In principle, the standard testing conditions used for testing decide the ohm values. But the constant temperature and humidity used before and after the test which result the ohm values in decision will require the adjustment within the tolerances referring to table 3.

RESISTANCE	100Ω under	100KΩ-255KΩ	255KΩ-1MΩ	1MΩ-5.11MΩ	5.11MΩ over
Adjust rate % per 1°C	- 0.02	- 0.035	- 0.04	- 0.05	- 0.06

(TABLE 3)

2. TEMPERATURE COEFFICIENT TEST

The resistors are put into the testing chamber at 50°C ~ 55°C for 30 to 40 minutes then measure the resistance. However, the temperature coefficient can be calculated by the following equation and its value should be within the range of table 3.

$$\text{RESISTOR TEMPERATURE COEFFICIENT} = \frac{R - R_0}{R} \times \frac{1}{T - T_0} \times 10^6$$

where R= Resistance Value Under The Testing Temperature.
 R₀= Resistance Value At Room Temperature.
 T= The Testing Temperature.

SURFACE TEMPERATURE RISE

