サーミスタ抵抗値測定時の注意事項
Caution for measurement resistance value of Thermistor products

NC series , NX series

当製品は、温度変化に応じて抵抗値が大きく変化します。（下表参照）
従って、抵抗値測定時には測定環境温度の変動を小さくすることが重要です。
The resistance value of this product changes very much by the temperature change. (Refer to the following table)
Therefore it's important to be small fluctuation of the measurement environmental temperature at measuring the resistance value.

- POINT1:素子や基板を手で触れないように、抵抗値測定を行ってください。
  Please measure the resistance value without touching a device and a substrate by hand or finger directly.
- POINT2:抵抗値測定スペースの環境温度がわかるように、温度計を設置してください。
  Please install a thermometer in order to recognize the environmental temperature in resistance value measurement place.
- POINT3:より精度良く抵抗値を測定する場合、温度管理された液槽で測定することを推奨します。
  （下記推奨測定方法参照）
  In case of required more accurate measurement, It is recommended to measure in the liquid bath that is controlled temperature strictly . (Refer to the following recommendation method)

(例 / For Example）抵抗値変化量 / Resistance value changes
Murata P/N ： NCP15XH103F03RC
(初期抵抗 / Resistance @25degC :10kΩ+/-1%, B定数 / B-constant : 3380K+/-1%)
25℃付近では1℃の温度変化で抵抗値が約4%変化します。
Resistance value change approx.4% per 1degC difference around 25degC

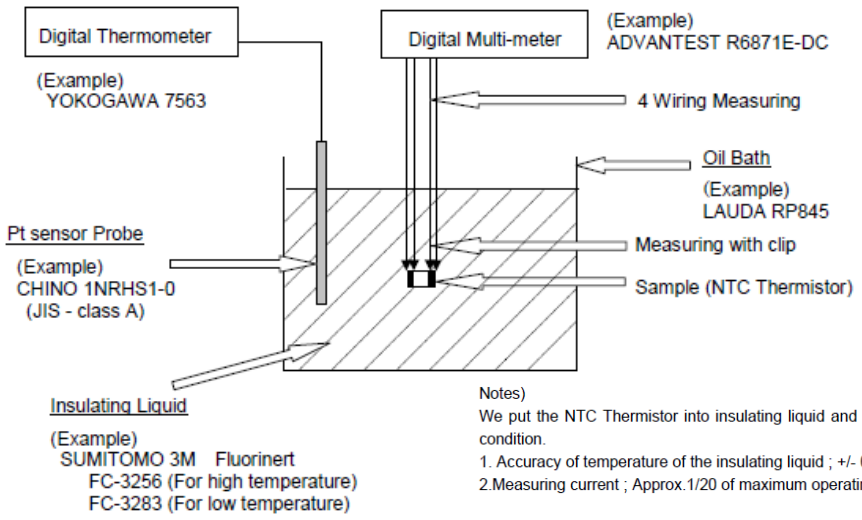
温度 Temp. (deg.C)	抵抗値 Resist. (k ohm)	変化率 Changes %
20	12.081	20.8%
21	11.628	16.3%
22	11.195	12.0%
23	10.780	7.8%
24	10.382	3.8%
25	10.000	0.0%
26	9.634	-3.7%
27	9.284	-7.2%
28	8.947	-10.5%
29	8.624	-13.8%
30	8.315	-16.9%

下記URL/QRコードにて動画を用いた説明も実施しておりますのでご覧下さい。
Murata's website explains it by using video in following URL/ QR Code, so please see it.

日本語 English

日本語 http://www.murata.com/ja-jp/support/faqs/products/thermistor/ntc/pct/0001
English http://www.murata.com/en-global/support/faqs/products/thermistor/ntc/pct/0001

サーミスタ推奨抵抗測定方法
Recommended resistance measurement method for Thermistor



Notes)
We put the NTC Thermistor into insulating liquid and measure a resistance value under the following condition.
1. Accuracy of temperature of the insulating liquid ; +/- 0.05 degC.
2.Measuring current ; Approx.1/20 of maximum operating current.

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