

KINGTEK ELECTRONICS TECHNOLOGY CORP.

STANDARD SPECIFICATION

8mm Ceramic Base Metal Film Semifixed Variable Resistors

1. GENERAL :

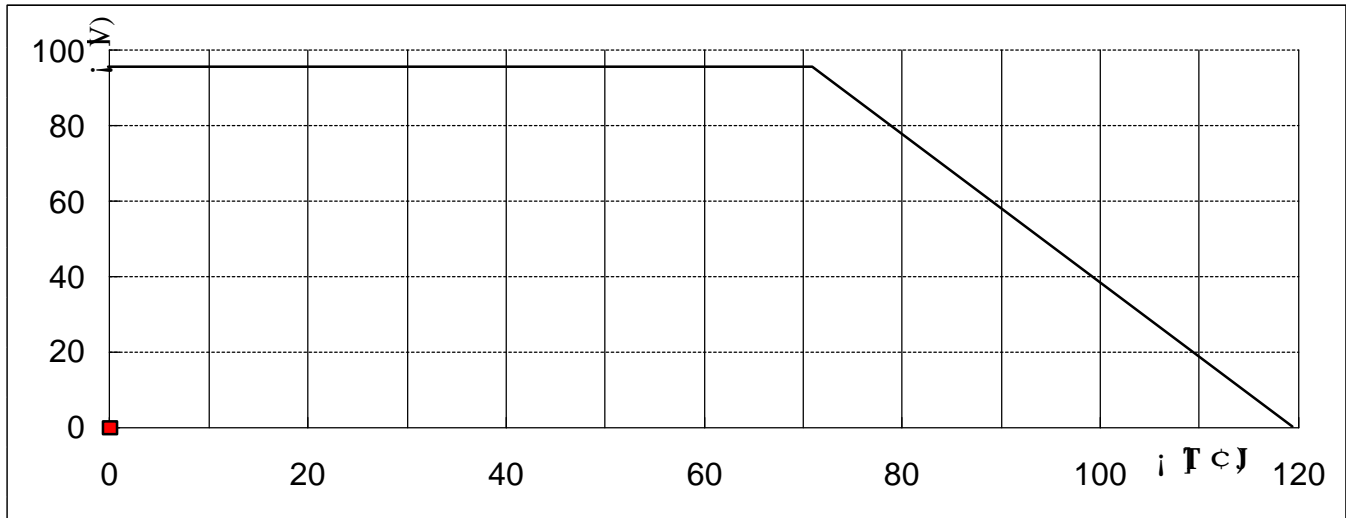
Test condition : The standard test shall be 5 ~ 35deg C temperature and 45 ~ 85% relative humidity 860 ~ 1060 Hpa atmospheric pressure unless otherwise specified. In case of any question happen, retest condition shall specify by temperature 20 +/-2deg C, 65 +/-5%RH and 860 ~ 1060 Hpa.

2. ELECTRICAL CHARACTERISTIC :

ITEM	TEST DESCRIPTION	SPECIFICATION
2.1	Overall Resistance Range	100Ohm ~ 1MOhm
2.2	Resistance Tolerance	100Ohm ~ 1MOhm +/-20%
2.3	Taper	B Curve
2.4	Residual Resistance	100Ohm MAX for R=<1KOhm 1% MAX R>=1KOhm
2.5	Working Voltage	E= SQR P.R E: Working voltage (V) P: Max power rating (W) R: Overall resistance (Ohm)
2.6	Max Working Voltage	250V
2.7	Rating Power	0.5W

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3. MECHANICAL CHARACTERISTIC:

ITEM	TEST DESCRIPTION	SPECIFICATION
3.1	Rotation Angle	260 +/-20° X
3.2	Stopper Strength	1K gf-cm min
3.3	Rotation Torque	30-300gf-cm
3.4	Terminal strength	350gf-cm min

4. MECHANICAL CHARACTERISTIC:

ITEM	TEST DESCRIPTION	TEST CONDITIONS	SPECIFICATION
4.1	Working Temperature		-40deg C ~+125deg C
4.2	Rotation Life Test Without Load	50 +/-2 cycle operation at a rate of 6 sec per cycle, rotation angle beyond 90% of resistive paste area.	Resistance variation within +/-10%

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ITEM	TEST DESCRIPTION	TEST CONDITIONS	SPECIFICATION
4.3	Temperature Characteristic	SVR being kept in the condition at $70 \pm 3^\circ\text{C}$ 5HR and in a normal ambient condition for one hour then measuring	Resistance variation within $\pm 3\%$
4.4	Temperature Cycle	<p>After 5 cycle testing under the following conditions. The sample is allowed to stand under normal temperature and humidity condition for 2 hour Then measuring. Water drops should be eliminated.</p> <p>The diagram illustrates a temperature cycle with four levels: $125 \pm 5^\circ\text{C}$, $25^\circ\text{C} \pm 5^\circ\text{C}$, $-40^\circ\text{C} \pm 2^\circ\text{C}$, and an unlabeled level. The cycle duration is 90 minutes, consisting of 15 min dwell, 30 min ramp, 15 min dwell, and 30 min ramp.</p>	Resistance variation within $\pm 5\%$
4.5	High Temperature Test	SVR being kept in the condition at $70 \pm 3^\circ\text{C}$ 500 ± 10 HR and in a normal ambient condition for 2HR and in a normal ambient condition for one hour then measuring.	Resistance variation within $\pm 5\%$
4.6	Humidity Test Without Load	SVR for testing being kept in the conditions at $40 \pm 2^\circ\text{C}$ in temperature and 90-95%RH for 500 ± 10 hours and in a normal ambient condition for 5HR then to be measured.	Resistance variation within $\pm 5\%$

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ITEM	TEST DESCRIPTION	TEST CONDITIONS	SPECIFICATION
4.7	Rotation Life Test With Load	SVR for testing being kept in the condition at 70+/-3deg C in temperature with working voltage to the terminal 1.5 hours then turn off 0.5 hours continuous for 500+/-10 hours and in a normal ambient condition for 5HR then to be measured	Resistance variation within 5%
4.8	Humidity Test With Load	SVR for testing being kept in the condition at 40+/-2deg C in temperature and 90~95%RH with working voltage to the terminal 1.5 hours then turn off 0.5 hours continuous for 500 +/-10 hours and in a normal ambient condition for 5HR then to be measured	Resistance variation within +/-5%
4.9	Soldering Temperature	SVR for testing terminal being dip into temperature 350 +/-10deg C depth 1.5~2.0mm Time: 3+/-0.5sec then in a normal ambient condition for 1 hour then to be measured.	Resistance variation within +/-2%