

# JIN ZON ENTERPRISE CO., LTD.

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# SX073 .07W Wire Wound High Precision Axial Resistor

SX073



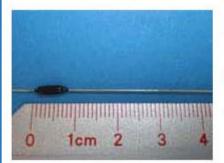
#### Electrical & Physical Specifications:

**A-Length:** 8.43mm (.332") **B-Diameter:** 2.29mm (.090")

Lead Dimensions: .020" dia. X 1.500" long

Max Watts @ 1% Tol: .07
Max Volts @ 1% Tol: 65

**Temperature Range:** -55 °C, to +125 °C **Resistance** ( $\Omega$ ): .1 Min to 65K Max



# SX Series Engineering Attributes:

#### RESISTANCE & TOLERANCES

You can select any Ohmic value or decimal part of an Ohm from  $.01\Omega$  to  $6M\Omega$  (MegaOhm or MEG) with tolerances to  $\pm .05\%$ . For closer resistance tolerances refer to the Ultra Precision HR Series

#### TCR CHARACTERISTIC

Standard: 0±10ppm/°C. for 100Ω & higher.

Standard: 0±15ppm/°C. for values below 100Ω

\*TCR is calculated between +25°C, & +100°C,

- -For lower specific TCRs to ±1ppm/°C., please refer to the Ultra Precision HR Series to satisfy your specifications.
- -For higher specific TCRs to ±6000ppm/°C., please refer to the Compensator Series to satisfy your specifications.



All SX High Precision Resistors are designed for full load based upon ±1% resistance tolerance providing the ambient temp (+) the rise in temp, due to self-heating, does not exceed +125°C. Derated to zero power @ +125°C. Refer to Derating Table shown below.

#### STABILITY VS. TIME

To ±.005%/yr. @ 25°C. with no Load.

#### REDUCTION OF THERMAL EMF USING COPPER TERMINALS:

Less than ±3 microvolts/°C. emitted.

#### PROTECTIVE COATING SEAL

Stress free solvent resistant silicone/epoxy seal.

## MARKING (Identification)

PRC stamp, part type & name,  $\Omega$  value & tolerance, physical size permitting.

## INDUCTANCE

Standard SX series resistors are inductively wound. Non-inductive windings are available, simply add suffix letter "N" in the part name.

\*Please specify the ambient temperature span of your operation when placing your order.



#### Type SX Derating Table:\*

For ±1% resistance tolerance apply up to 100% of rated power to +125°C, derated to zero power at 145°C.

For ±1/2% (0.5%) resistance tolerance apply up to 75% of rated power to +125°C, derated to zero power at 140°C.

For ±4% (0.25%) resistance tolerance apply up to 50% of rated power to +125°C, derated to zero

power at 135°C.

For  $\pm 1/10\%$  (0.1%) resistance tolerance apply up to 50% of rated power to  $\pm 125$ °C. denoted to zero power at 135°C.

For  $\pm 1/20\%$  (0.05%) resistance tolerance apply up to 35% of rated power to  $\pm 125$ °C derated to zero power at 132°C.

#### Details

 SKU
 SX073

 Type
 Axial-Lead

 Length
 8.43mm (.332")

 Lead Dimensions
 .020" dia. X 1.500" long

 Diameter
 2.29mm (.090")

 Diameter
 2.29mm (.090")

 TCR Char.
 to 0±10ppm/°C. (between +25°C. and +100°C.)

Temperature -55°C, to  $\pm 125$ °C Resistance  $\pm 10$  to  $\pm 05$ % Tolerance to  $\pm 0.05$ %

Stability to ±.005%/yr. at +25°C

Max Watts .07
Max Volts 65
Lead Free Yes

<sup>\*</sup> Percent of Rated Power vs. Combined Temp. of Self-Heating and Ambient (in °C.).