

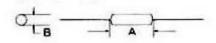
# JIN ZON ENTERPRISE CO., LTD.

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## SX175 .33W Wire Wound High Precision Axial Resistor

B-Diameter:

SX175



#### Electrical & Physical Specifications:

A-Langth: 11,61mm (.457")

Lead Dimensions: .028" dia. X 1.500" long

Max Watts @ 1% Tol: .33
Max Volts @ 1% Tol: 330

Temperature Range: -55°C, to +125°C

Resistance (Ω): .1 Min to 350K 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

4.83mm (.190")

#### 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,

-Far 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 5X 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 ±1/4% (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
 SX175

 Type
 Axial-Lead

 Length
 11.61mm (.457")

 Lead Dimensions
 .028" dia. X 1.500" long

 Lead Dimensions
 4.000 (.400")

Diameter 4.83mm (.190")

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

Temperature -55°C, to +125°C Resistance  $1\Omega$  to 350K $\Omega$ Tolerance to  $\pm$ ,05%

Stability to ±.005%/yr. at +25°C

Max Watts .33
Max Volts .330
Lead Free Yes

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