

# JIN ZON ENTERPRISE CO., LTD.

TEL:886-2-2711-1093~5 FAX:886-2-2731-0902 ,2776-4624 地址:台北市長安東路二段171號4樓之3 Email: jinzon@ms2.hinet.net

## SX124 .2W Wire Wound High Precision Axial Resistor



**SX124** 

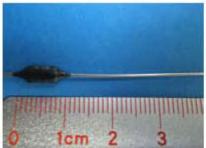
#### **Electrical & Physical Specifications:**

A-Length: 10.03mm (.395") 3.68mm (.145") B-Diameter:

Lead Dimensions: .025" dia. X 1.500" long

Max Watts @ 1% Tol: .2 Max Volts @ 1% Tol:

Temperature Range: -55°C, to +125°C Resistance  $(\Omega)$ : .1 Min to 160K 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 ±.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.

#### **POWER VS. AMBIENT TEMPERATURE**

All SX High Precision Resistors are designed for full load based upon  $\pm 1\%$  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 Denating 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.

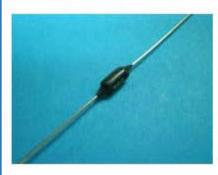
#### MARKING (Identification)

PRC stamp, part type & name, Ω 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 ±½% (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 ±1/10% (0.1%) resistance tolerance apply up to 50% of rated power to +125°C. derated to zero power at 135°C.

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

#### Details

SKU SX124 Axial-Lead Type 10.03mm (.395") Length .025" dia, X 1,500" long 3,68mm (,145") Lead Dimensions Diameter

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

-55°C. to +125°C Temperature Resistance .1Ω to 160KΩ to ±.05% Tolerance

to  $\pm$ .005%/yr. at +25°C Stability

Max Watts Max Volts 200 Lead Free Yes

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