

JIN ZON ENTERPRISE CO., LTD.

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SX123 .166W Wire Wound High Precision Axial Resistor



SX123

Electrical & Physical Specifications:

A-Langth: 8,43mm (.332")

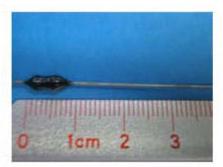
B-Diameter: 3.68mm (.145")

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

Max Watts @ 1% Tol: .166
Max Volts @ 1% Tol: 165

Temperature Range: -55°C, to +125°C

Resistance (Ω): .1 Min to 120K 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.

POWER VS. AMBIENT TEMPERATURE

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, 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 ±4% (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 ± 1.25 °C. derated to zero power at 1.35 °C.

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

Details

 SKU
 SX123

 Type
 Axial-Lead

 Length
 8.43mm (.332")

 Lead Dimensions
 .025" dia. X 1.500" long

Diameter 3.68mm (.145")

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

Temperature -55° C. to $\pm 125^{\circ}$ C Resistance 10 ± 0.05 to ± 0.05 %

Stability to ±.005%/yr. at +25°C

Max Watts .166
Max Volts 165
Lead Free Yes

^{*} Percent of Rated Power vs. Combined Temp. of Self-Heating and Ambient (in °C.).