

JIN ZON ENTERPRISE CO., LTD.

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SX143 .2W Wire Wound High Precision Axial Resistor



SX143

Electrical & Physical Specifications:

A-Length: 8.43mm (.332")

B-Diameter: 4.06mm (.160")

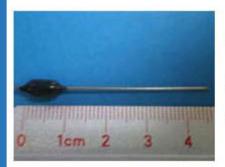
Lead Dimensions: .028" dia. X 1.500" long

Max Watts @ 1% Tol: .2

Max Volts @ 1% Tol: 200

Temperature Range: -55°C. to +125°C

Resistance (Ω): .1 Min to 130K 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 ±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 SX143 Axial-Lead Type Length 8.43mm (.332") .028" dia. X 1.500" long 4.06mm (.160") Lead Dimensions

Diameter

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

-55°C. to +125°C Temperature Resistance $.1\Omega$ to 130K Ω to ±,05% Tolerance

to \pm .005%/yr. at +25°C Stability

Max Watts Max Volts 200 Lead Free Yes

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