

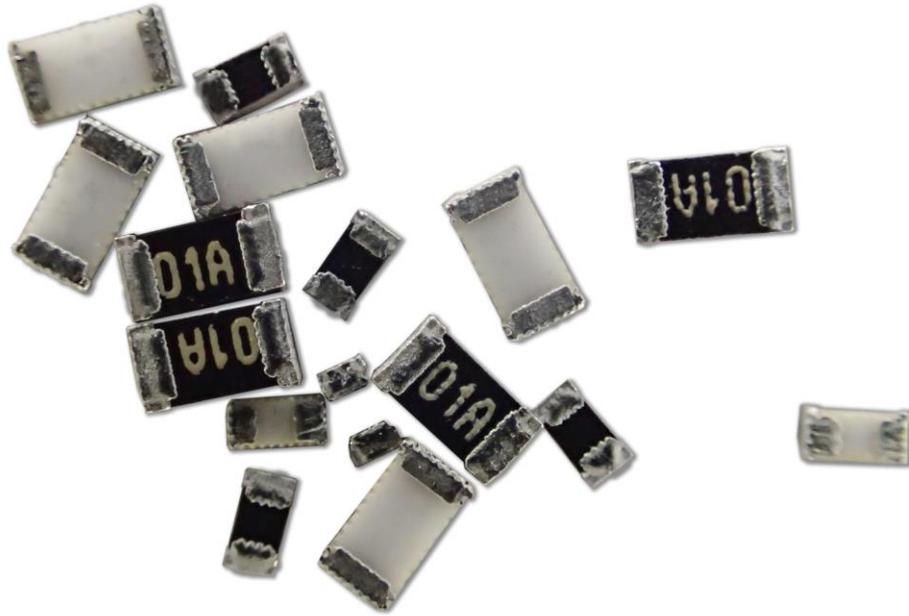


Stackpole Electronics, Inc.
Resistive Product Solutions

RTAN Series Tantalum Nitride Precision Thin Film Chip Resistors

The RTAN series from Stackpole is an AEC-Q200 qualified series of precision thin film chip resistors. The Tantalum Nitride resistive film forms a moisture impervious Tantalum Pentoxide barrier layer in the presence of moisture which protects the resistive element itself. The RTAN will pass thousands of hours under 85 deg. C, 85% relative humidity, 10% rated power test conditions with very little resistance shift. In addition, Stackpole's materials and design enhance the anti-moisture performance and makes the RTAN highly resistant to sulfur contamination. Under industry standard sulfur testing (per ASTM B809-95 humid vapor testing), the RTAN chip resistors show minimal resistance shifts after over 700 hours.

Applications for the RTAN include instrumentation, aerospace, test equipment, industrial controls, portable communications diagnostic equipment, and portable medical devices.



[Datasheet.](#)

Features

- Precision resistor performance that is impervious to high moisture conditions
- Passes biased humidity testing at 85 deg. C, 85% R.H., 10% rated power, for 1000 hours with very low resistance shift
- AEC-Q200 Compliant
- Sulfur resistant (per ASTM B809-95 humid vapor test)
- Sizes: 0402 and 1206 sizes
- Resistance values from 10 ohm to 1 Meg ohm
- TCR of 10, 15, 25, and 50 ppm / deg. C
- Tolerances 0.05%, 0.1%, 0.25%, 0.5%, 1%