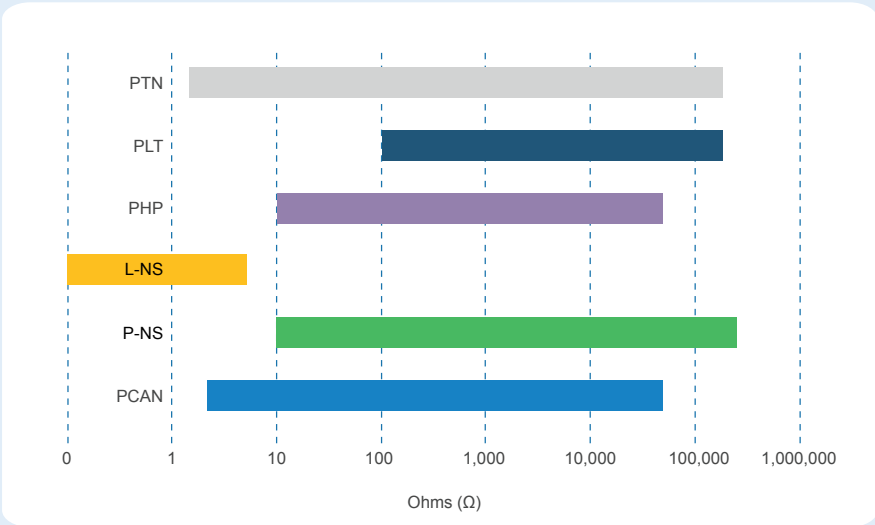
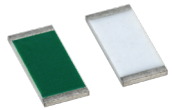
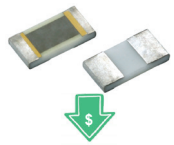
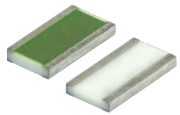
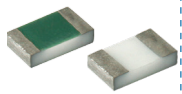
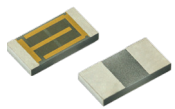
Vishay Thin Film Precision Surface-Mount Chip Resistors for Industrial Applications

PTN / PLT / PHP / L-NS / P-NS / PCAN

Resistance Range 0603 Case Size



Series	Thin Film Technology	High Purity Substrate	Key Performance Features	Key Industrial Applications
PTN	Tantalum Nitride	Alumina	• Moisture and Sulfur Resistant • High Precision (± 0.05 % Tolerance) • High Stability (ΔR ± 0.02 % @ 70 °C, 1 000 h) • Low TCR (± 10 ppm/°C)	• Automated Test and Measurement Equipment • Controls and Navigation Systems • Power Supply • Power Tools • Signal Conditioning • Telecommunications Controls
PLT 	Passivated Nichrome	Alumina	• High Precision (± 0.01 % Tolerance) • High Stability (ΔR ± 0.04 % @ 70 °C, 10 000 h) • Low TCR (± 5 ppm/°C)	• Current Sensing • Control Circuitry • FCV Sensor • Power Conversion
PHP 	Passivated Nichrome	Ceramic	• High Power Ratings (1.0 W to 2.5 W) • Stable Film Performance (ΔR ± 0.1% @ 70 °C, 10 000 h)	• Amplifiers • Automated Test and Measurement Equipment • Cell Phone Base Stations • Motor Deflection Circuit • Power Conversion • Power Regulator/Supply Circuits
L-NS 	Homogenous Nickel Alloy	Alumina	• Low ohms capability down to 0.03 Ω (case dependent) • No inductance for high frequency applications	• Current Limit Circuit • Current Sensing • Measurement Systems
P-NS 	Passivated Nichrome	Alumina	• High Stability (ΔR ± 0.05 % @ 70 °C, 10 000 h) • High Precision (± 0.02 % Tolerance) • Moisture Resistant (SPM) Special Passivation Method	• Automated Test Equipment • Circuit Breaker System • Energy Monitoring and Metering • Sensor Signal Conditioning
PCAN 	Passivated Nichrome	Aluminum Nitride	• High Power Ratings (0.5 W to 6.0 W) • Load Life Stability of 1 % @ 1000 h at 70 °C • High Thermal Conductivity	• Current Limit Circuit • Power Supply/Switching • Power Management Circuit • Termination Resistor • Voltage Regulator

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