

Consistent Precision & Reliability

Precision and reliability are the **heart and soul** of VPG Foil Resistors. For decades we have been known to produce supreme quality products complying with the strictest global standards worldwide. As market demands, we've extended our product line with APR – our new brand for standardized products.

Providing you with the widest selection of highly precise and reliable foil resistors from made-to-order to standardized, that meet any required qualifications.















VPG Foil Resistors consists of four brands



VFR - Bulk Metal Foil®

Foil precision resistors produces AAA-class resistors made-to-order, offering high standing reliability and best longterm stability, meeting the EEE /QPL standards.

Key Features

resistance (TCR):

± 0.2 ppm/°C - typical

Power Rating: to 10 W

Temperature coefficient of

Resistance Range: $1 \text{ m}\Omega$ -1.84 M Ω

Resistance tolerance: to ±0.005%

Load Life Stability under Rated

EEE / OPL

Power: to ±0.0025% -typical



Alpha Electronics

provides AA class foil resistors, high precision programmable certified resistance decade boxes, primary & secondary standard resistors. Custom designs for thin film resistors and RTD simulators complying with MIL standard.



Powertron

provides AA class high precision power current sense foil resistors in lower resistance and custom design for thick film power resistors complying with MIL standards.



APR

provides off the shelf A+ class standard surface mount resistors packaged in tape & reel and power current-sense resistors with resistance values based on E24 & E96 codes complying with the AEC-Q200 standardization.

Key Features

Temperature coefficient of resistance (TCR): ±2 ppm/°C - typical Resistance Range: $0.3 \text{ m}\Omega$ - $1 \text{ T}\Omega$ Resistance tolerance: to ±0.005% Power Rating: to 20 W Load Life Stability under Rated Power: to ±0.005% -typical







PG Foil Resistors ALPHA ELEC. • POWERTRON • APR

Key Features

Temperature coefficient of resistance (TCR): ±0.2 ppm/°C - typical Resistance Range: $1 \text{ m}\Omega$ - $10 \text{ M}\Omega$ Resistance tolerance: to ±0.01% Power Rating: to 500 W Load Life Stability under Rated Power: to ±0.005% -typical

MIL Standard

Key Features

Temperature coefficient of resistance (TCR): ±25 ppm/°C - typical Resistance Range: $20 \text{ m}\Omega$ - $10 \text{ T}\Omega$ Resistance tolerance: to ±0.05% Power Rating: to 900 W Load Life Stability under Rated Power: to ±0.5%









