

Featuring Integrated Knobs and IP67 Sealing, New Panel Potentiometers Lower Costs and Simplify Designs for Industrial and Audio Applications; Offer High Dielectric Strength of 5000 V_{AC} and Power Ratings to 1 W

Product Benefits:

- Feature an integrated knob to lower costs and simplify designs
- Full IP67 sealing for reliable operation in extreme environmental conditions
- High dielectric strength of 5000 V_{AC}
- High power ratings up to 1 W at +40 °C
- Two versions available:
 - PA16F with plastic resistive element for audio applications
 - P16F with cermet resistive element for industrial applications
- Custom knob markings, resistance values, wires, and connectors — in addition to detent and switch options — are available
- Metallic knob available on request
- Tested in accordance with CECC 41000 or IEC 60393-1



Market Applications:

- Audio applications
- Industrial motor drives, welding equipment, HVAC and lighting systems, and control panels

The News:

Vishay Intertechnology introduces two new panel potentiometers featuring integrated knobs and IP67 sealing. Offering a high dielectric strength of 5000 V_{AC} and power ratings up to 1 W at +40 °C, the Vishay Sfernice P16F and PA16F are designed to lower costs and simplify designs in industrial and audio applications.

- By integrating a knob with a panel potentiometer in a single component, the devices released today eliminate the need to purchase and assemble a separate knob
- With only the mounting hardware and terminals situated on the back side of the panel, the compact potentiometers reduce the clearance required behind the panel to an extremely low < 15 mm

The Key Specifications:

Part number	P16F	PA16F
Resistive element	Cermet	Conductive plastic
Resistance range (linear taper)	22 Ω to 10 MΩ	1 kΩ to 1 MΩ
Power rating (linear)	1 W at +40 °C	0.5 W at +40 °C
Typical TCR	± 150 ppm/°C	± 500 ppm/°C
Dielectric strength RMS	5000 V _{AC}	



NEW PRODUCT INFORMATION



Product Group: Vishay Sfernice, Potentiometers / **March** 2024

Availability:

Samples and production quantities of the P16F and PA16F are available now, with lead times of 14 weeks.

To access the product datasheet on the Vishay Website, go to <http://www.vishay.com/ppg?51090> (P16F, PA16F)

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