



## New P11P and P11D Panel Potentiometers

### The Key Benefits:

- High dielectric strength of 5,000 VRMS for greater reliability, robustness, and corrosion protection
- Compact 12.5-mm size
- P11P's cermet element provides better stability than carbon elements
- P11D's conductive plastic element offers a reduced electrical noise for audio applications
- Feature a wide range of configurations
  - Up to seven modules, two shaft lengths, and 29 terminal styles
  - Offered in shaft and panel-sealed versions
  - Provide up to 21 indent positions along with rotary switch options
- Resistance range from 20  $\Omega$  to 10 M $\Omega$  with typical contact resistance variation down to 1 %
- TCR down to  $\pm 150$  ppm/ $^{\circ}\text{C}$



### The Key Applications:

- Control panel applications in welding machines, air conditioning units, tooling machines, medical systems, and X-ray equipment

### The News:

## New Vishay Sfernice Panel Potentiometers Feature High 5,000-VRMS Dielectric Strength in Compact 12.5-mm Size; Offer Cermet and Conductive Plastic Elements in Up To Seven Modules

Vishay Intertechnology, Inc. (NYSE: VSH) announces two new compact panel potentiometers with high dielectric strength of 5,000 VRMS, cermet and conductive plastic elements, and a wide variety of modules and terminal styles.

- Offer designers a compact alternative to other low-cost panel potentiometers
- Feature insulated plastic shafts and bushing, with value-added options in accordance to drawings supplied by customers
- Provide typical operating torque from 0.3 oz. to 1.4 oz. per inch and end stop torque of 6.8 lb. per inch
- Tested in accordance to CECC41 000, the devices offer an operating temperature range of - 40  $^{\circ}\text{C}$  to +100  $^{\circ}\text{C}$  to ensure reliable operation even in extreme environments

### Key Device Specifications:



# New Product Info



Product Group: Vishay Sfernice, Potentiometers

Part number	P11D	P11P
Element	Conductive plastic	Cermet
Resistance range	1 k $\Omega$ to 1 M $\Omega$	20 $\Omega$ to 10M $\Omega$
Contact resistance variation (typ.)	1 %	2 % or 3 $\Omega$
Temperature coefficient (typ.)	$\pm$ 500 ppm/ $^{\circ}$ C	$\pm$ 150 ppm/ $^{\circ}$ C
Life cycles	50,000	50,000

## The Perspective:

With their 12.5-mm size, Vishay's new P11P and P11D offer designers a compact alternative to other low-cost panel potentiometers. The P11P's cermet element provides better stability than carbon elements, while the conductive plastic element of the P11D offers a reduced electrical noise for audio applications. Both devices feature a 5,000-VRMS dielectric strength for greater reliability, robustness, and corrosion protection, and offer insulated plastic shafts and bushing, with value-added options in accordance to drawings supplied by customers. The versatile panel potentiometers offer a wide range of configurations for control panel applications, including up to seven modules, two shaft lengths, and 29 terminal styles.