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FOR IMMEDIATE RELEASE

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[PLA172P OptoMOS Relay](#)

Littelfuse Adds 105°C Rated, 800V Solid State Relay to Product Line

Ideal for challenging high-temperature applications including industrial, medical, and solar

CHICAGO, June 30, 2020 — [Littelfuse, Inc.](#) (NASDAQ: LFUS) a global manufacturer of leading technologies in circuit protection, power control, and sensing, today announced the PLA172P OptoMOS® Relay, an 800 V normally-open single-pole 6-pin solid-state relay (SSR). It is the first solid-state relay in the Littelfuse product portfolio that comes with guaranteed electrical parameters at 105 °C ambient operating temperature.

“The PLA172P is an extension to our OptoMOS solid-state relay product line, offering our highest voltage rating (800V) in a surface mount SSR Flatpack package,” said Steve Andrezyk, Global Product Manager at Littelfuse. “It also has our highest temperature range in a solid-state relay, extending our operational temperature range from 85 °C up to 105 °C, enabling hardware engineers to precisely design their circuits at very challenging temperatures.”

This combination of high voltage rating, high temperature range, and surface-mountable packaging is recommended for applications including:

- Industrial
- Instrumentation
- Medical
- Isolation Test Equipment
- Battery Isolation Monitors
- Industrial Solar Field Isolation Monitor

The PLA172P OptoMOS relay includes these key benefits:

- Replaces electro-mechanical relays (EMRs) that are bulky and prone to failing drop tests
- Unique device pinout provides more than 6.8 mm of pad-to-pad separation between the high voltage output pins preventing arcing
- 5000 V_{RMS} input-to-output isolation
- 5 mA low input control current over operating temperature range

Application – Isolation Current Monitor

Isolation current monitor circuits for higher voltage systems >400 V require high blocking voltage, low off-state leakage current relays with high input-to-output isolation rating to prevent potential lethal current conduction to the system chassis. The PLA172P relay's 800 V load voltage rating with 100 mA load current capability provides additional design margin compared to the more common 600 V rated SSRs, particularly on noisy AC power line applications and high voltage battery applications. The 105 °C specifications including the low 5 µA maximum off-state leakage current rating in conjunction with the low on-resistance, making it the ideal choice for high precision isolation current monitor applications.

Availability

PLA172P OptoMOS relays are available in tape and reel format in quantities of 1,000 as well as 50 per tube. Sample requests may be placed through authorized Littelfuse distributors worldwide. For a listing of Littelfuse distributors, please visit Littelfuse.com.

For More Information

Additional information is available on the [solid state relays product page](#) and [PLA172P 800V Normally-Open Single-Pole 6-Pin OptoMOS datasheet](#).

For technical questions, please contact: Steve Andrezyk, Global Product Manager, Semiconductor Business Unit at Littelfuse, SAndrezyk@Littelfuse.com.

About Littelfuse

Littelfuse (NASDAQ: LFUS) is a global manufacturer of leading technologies in circuit protection, power control, and sensing. Serving over 100,000 end customers, our products are found in automotive and commercial vehicles, industrial applications, data and telecommunications, medical devices, consumer

electronics and appliances. Our 11,000 worldwide associates partner with customers to design, manufacture and deliver innovative, high-quality solutions, for a safer, greener, and increasingly connected world — everywhere, every day. Learn more at [Littelfuse.com](https://www.littelfuse.com).

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