

Innovation Nonstop: Miniature WSSOP PhotoMOS® elevates measurement and test equipment

Panasonic Industry releases new Low CxR PhotoMOS® HS series-AQY231R1WY (1Y)

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Panasonic Industry has recently introduced a new PhotoMOS® relay in a miniature WSSOP package designed for measuring, testing and medical equipment. It belongs to the successful series of so-called Low CxR PhotoMOS®. AQY231R1WY (1Y) and have an optimized, very low product of C and R of the output MOSFETs. The first relay of this series operates at 40V, 350mA and available in 1FormA contact arrangement.

MOSFET relays play a crucial role in the measurement and test equipment market due to their speed, efficiency, and reliability. As a trusted manufacturer, Panasonic Industry ensures that their innovative products can effectively serve the above requirements to meet the needs of various industries and applications.

PhotoMOS® Relays are increasingly used in various industrial applications due to their unique characteristics and advantages over traditional electromechanical relays. Here are some key features of the brand new WSSOP relay:

- **New Compact Package:**
WSSOP reduces the mounting area by 89% compared to conventional products. This contributes to the miniaturization of equipment, giving the customer the advantage to build more resource-saving and be more cost efficient.
- **High temperature operation:**
Guaranteed to operate at a maximum ambient temperature of +125°C, the new PhotoMOS® relay is ideal for use in high-temperature environments like semiconductor testers and burn testers. For comparison, conventional relays are only able to handle up to +85°C.
- **High sensitivity:**
The current required to operate the WSSOP relay is only 1.0mA, which is 1/3 of the 3.0mA required by the conventional product, demonstrating a reduction to 1/3 of the power consumption, which contributes to energy saving of the equipment.
- **High speed operation:**
The WSSOP PhotoMOS® relay operates on T_{on} , typ. 0.025ms; T_{off} typ. 0.15ms
- **High frequency characteristics:**

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Most importantly, the PhotoMOS® HS WSSOP comes with excellent high-frequency characteristics enabling transmission without breaking high frequencies.

Chaithra Bhat Beedubail, Product Manager at Panasonic Industry Europe, comments: “With the new PhotoMOS relay we have developed a product for our customers, which is offering a unique, miniature design without making any compromises in terms of performance. The relay is particularly suitable for a variety of applications in test equipment - such as IC tester, board tester or probe cards - measurement equipment like Multimeters or Multiplexer and medical equipment, for example X-ray machines, ultrasonics and CT scanners. We are excited to expand our PhotoMOS family with this exciting new addition.”

Learn more about the PhotoMOS® HS WSSOP 1 Form A Low C × R relay on Panasonic Industry’s [website](#).

About Panasonic Industry Europe GmbH

Panasonic Industry Europe GmbH is part of the global Panasonic Industry organization, one of the eight major operating companies within Panasonic Holding. Panasonic Industry Europe provides products and services for industrial customers all over Europe.

Panasonic Industry Europe is committed to enabling customers to achieve their goals in a broad range of industrial sectors such as mobility, infrastructure, automation, medical, appliances, smart living, and security. With the know-how of devices and solution technologies, cultivated through a global mindset and over a century of tradition, Panasonic Industry collaborates closely with customers to create a sustainable future.

Panasonic Industry Europe’s broad and diverse product portfolio encompasses key electronic component sectors including electromechanical and passive components, batteries and other energy products, sensors and wireless connectivity modules, thermal management materials and custom solutions, as well as automation devices & solutions.

More about Panasonic Industry Europe: <http://industry.panasonic.eu>

About the Panasonic Group

Founded in 1918 and today a global leader in developing innovative technologies and solutions for wide-ranging applications in the consumer electronics, housing, automotive, industry, communications, and energy sectors worldwide, the Panasonic Group switched to an operating company system on April 1, 2022, with Panasonic Holdings Corporation serving as a holding company and eight companies positioned under its umbrella.

The Group reported consolidated net sales of Euro 54.12 billion (8,496.4 billion yen) for the year ended March 31, 2024. To learn more about the Panasonic Group, please visit: <https://holdings.panasonic/global/>