

### OMRON Expands Low Leakage MOSFET Relay Module Range

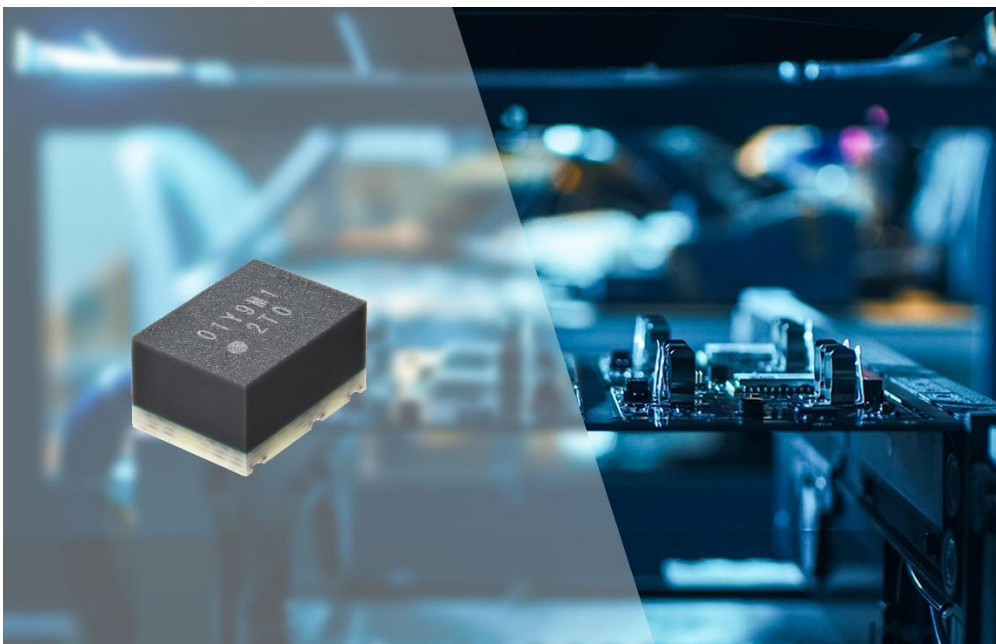
*OMRON T-modules combine the advantages of mechanical and MOSFET relay technology*

**Hoofddorp, Netherlands, Tuesday, 21 September 2021** – OMRON Electronic Components Europe has released new high voltage and high current versions of its innovative T-configuration MOSFET relay modules. OMRON T-modules offer the exceptional reliability and durability of solid state relays combined with an exceptionally low leakage current of just 1 pA or less, allowing their use in measurement and other applications where mechanical relays have previously been preferred.

The new OMRON G3VM-61MT features a load current of 800 mA, and the G3VM-101MT offers a load voltage of 100 V. They join the high isolation G3VM-21MT. The exceptionally low leakage current of these devices is achieved with a unique T- circuit structure\* that sends most leakage current to ground, OMRON T-modules effectively combine the advantages of the mechanical and MOSFET relays to provide an accurate, compact and long-lasting switching solution with no mechanical contacts.

A key application of the modules is supporting accurate measurements in all types of test equipment where mechanical relays have previously been preferred due to their low leakage current. However, they have a much lower lifespan due to abrasion of contacts which reduces measurement accuracy over time. In intensive use, frequent replacement may be necessary pushing up the maintenance costs.

The compact size of 5 mm x 3.75 mm x 2.7 mm is achieved by the incorporation of the T-circuit into the module. The devices are surface mounted and offered in SPST with no configuration required. The electrical load characteristics of the new devices are 800 mA, 60 V for the G3VM-61MT and 550 mA and 100 V for the G3VM-101MT. The G3VM-21MT features exceptional isolation performance of less than -30dB at 1 GHz and is rated at 200 mA, 20 V.



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\* According to OMRON's research in August 2021

### **About OMRON Electronic Components Europe**

OMRON Electronic Components Europe is a leader in electromechanical PCB relays, as well as a leading supplier of components such as micro switches, MOSFET relays, DIP switches, photomicrosensors and connectors. OMRON has a strong portfolio of innovative technologies including MEMS based pressure, flow and thermal measurement sensors, human face and gesture recognition modules, vibration and tilt sensors.

OMRON Electronic Components Europe strongly supports its customers in Western and Eastern Europe, Russia and the CIS through 8 regional offices, a network of local offices and partnerships with specialist, local, regional and global distributors.

OMRON Electronic Components Europe is a subsidiary of the OMRON Corporation, recognised worldwide as a leader of high quality, high technology electrical and electronic control equipment and component products.

### **About OMRON Corporation**

OMRON Corporation is a global leader in the field of automation based on its core technology of "Sensing & Control + Think." OMRON's business fields cover a broad spectrum, ranging from industrial automation and electronic components to social infrastructure systems, healthcare, and environmental solutions. Established in 1933, OMRON has about 28,000 employees worldwide, working to provide products and services in around 120 countries and regions. In the field of industrial automation, OMRON supports manufacturing innovation by providing advanced automation technologies and products, as well as through extensive customer support, in order to help create a better society.

Please send reader enquiries to:

Marketing Support Group

OMRON Electronic Components Europe B.V.

Wegalaan 57, 2132 JD, Hoofddorp, The Netherlands

Tel: +31 235 681 296, Fax: +31 235 681 222

Email: [info-components-eu@omron.com](mailto:info-components-eu@omron.com)

Web: <http://components.omron.eu>