

Breaking the speed record of data communication

Innovative 50G SCHOTT TO Plus® Packages enable unprecedented bandwidths in communication networks

- Actively cooled high-speed applications enabled by 50G EML TEC TO can packages
- Applications include 50G PON, 5G, Datacenter, and 100G PAM4
- High-speed datacenter applications with economical alternatives to box packages

Landshut, Germany – September 30, 2020.

The international technology group SCHOTT is introducing several high-speed products to the optical communication industry that will support advanced developments in high-speed data communication. With its latest TO innovations – the brand new 50G EML TEC TO header (Tx), 50G TO 46 header (Rx), and the SCHOTT 25G DML TEC TO – the German company with a corporate history of more than 130 years is further establishing its position as an innovation leader in the field.

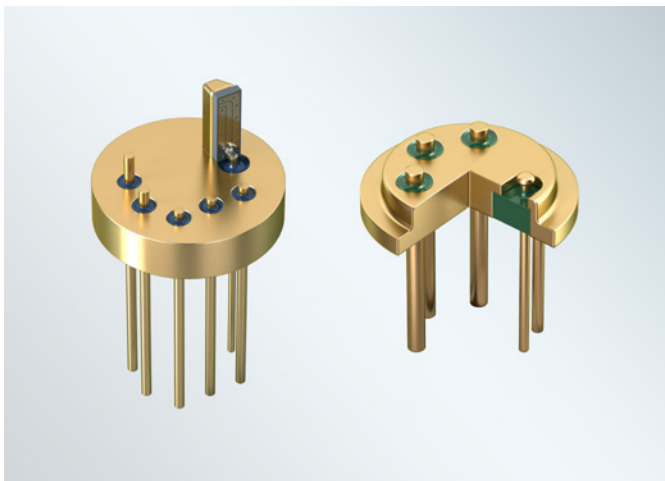
Ultra-High-Speed Breakthrough with new 50G EML TEC TO (Tx) and 50G TO46(Rx)

The SCHOTT TEC TO package platform is ideal for laser diodes that require a thermoelectric cooler (TEC). SCHOTT recently upgraded the speed of EML TEC TO header to 50 Gigabit per second. The 50G EML TEC TO header is used for transceivers and normally matched with a 50G TO 46 header in receivers.

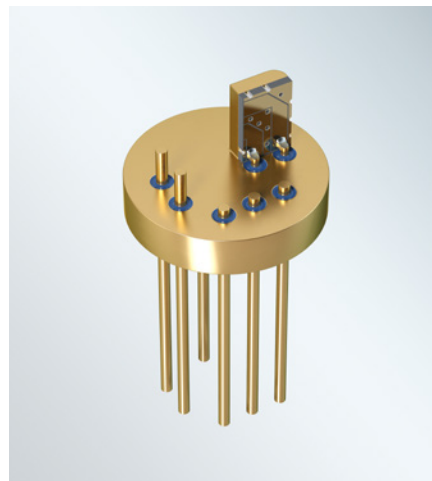
Applications for 50G TO packages encompass a broad range of possibilities. These include datacenter, 100G PAM4, and 50G PON. 50G TO packages can also enable faster data transmission to wireless stations (cell towers) to help the telecom industry take steps towards deploying 5G cellular networks.

High performance, miniaturized 25G DML TEC TO packages for 5G front-haul color light

The 25G DML TEC TO is the second transistor outline header platform innovation presented by SCHOTT. It opens up new possibilities to replace box packages in actively-cooled high-speed applications, including single-channel 25G CPRI, next-generation PON OLT Tx, and other tunable laser applications. The product also has potential uses in XGPON. The special asymmetric design enables economical mass production possibilities.



SCHOTT's 50G EML TEC TO (Tx) and 50G TO 46 (Rx)



SCHOTT's 25G DML TEC TO

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About SCHOTT

Pioneering – responsibly – together.

These attributes characterize SCHOTT as a manufacturer of high-tech materials for specialty glass. Founder Otto Schott is considered its inventor and became the pioneer of an entire industry.

Always opening up new markets and applications with a pioneering spirit and passion – this is what has driven the #glasslovers at SCHOTT for more than 130 years. Represented in 34 countries, the company is a highly skilled partner for high-tech industries: Healthcare, Home Appliances & Living, Consumer Electronics, Semiconductors & Datacom, Optics, Industry & Energy, Automotive, Astronomy, and Aerospace. In the fiscal year 2020, its 16,500 employees generated sales of 2.24 billion euros. With the best teams, supported by the best digital tools, the group intends to continue to grow. SCHOTT AG is owned by the Carl Zeiss Foundation, one of the oldest foundations in Germany. It uses the Group's dividends to promote science. As a foundation company, SCHOTT has anchored responsibility for employees, society and the environment deeply in its DNA. The goal is to become a climate-neutral company by 2030.



Applications of 50G TO packages encompass a broad range of possibilities. These include datacenter, 100G PAM4, 50G PON and 5G cellular networks.