
MACOM Announces 25G APD Photodiode and 25G Fabry-Perot Laser Aimed at Enabling Next Generation 5G and Data Center Networks

- *APD28A, 25G Avalanche Photodiode, offers high bandwidth, high sensitivity and wide wavelength operation range for 25G NRZ and 50G PAM-4 applications*
- *MAOD-131F25, directly modulated 25G 1310nm Fabry-Perot laser with a wide operating temperature range of -40°C to +95°C*

Lowell, Massachusetts, March 11, 2020 – [MACOM Technology Solutions Inc.](#) (“MACOM”), a leading supplier of semiconductor solutions, today announced the availability of its 25G Avalanche Photodiode (APD) and 25G Fabry-Perot (FP) Laser optical components for 5G Wireless and Datacenter applications.

The **APD28A** is a back-illuminated 25G APD covering both O- and C-Bands with a usable wavelength range of 1250nm to 1650nm. The Photodiode features greater than 20GHz (3dB) bandwidth, with very high sensitivity of -22dBm when coupled to a low noise amplifier for transmission applications.

The device performance enables customers to design optical sub-assemblies and transceivers suitable for 5G wireless mid-haul and long-haul networks, and extended reach (ER4) applications for 100Gbps, 200Gbps and 400Gbps Data Center applications.

MACOM will offer the 25G APD as bare die and a chip-on-carrier format to provide maximum design flexibility to customers.

The **MAOD-131F25** is a directly modulated high speed 25Gbps 1310nm Fabry-Perot laser diode with a wide operating temperature range of -40°C to +95°C. The device leverages MACOM’s patented and proven Etched Facet Technology (EFT) enabling scalability to high volume manufacturing. The 25G FP laser is ideally suited to enable customers’ 5G LTE fronthaul short reach applications as well as low cost 100Gbps parallel single mode fiber (PSM4) application for datacenters.

MACOM will offer the 25G Fabry-Perot laser in a TO-Can package to complement customer requirements and accelerate time to market.

For more information on the APD28A APD and MAOD-131F25 laser, along with MACOM’s complete portfolio of products for optical communications visit: www.macom.com/applications/optical-networking.

ABOUT MACOM:

MACOM designs and manufactures semiconductor products for Data Center, Telecommunication and Industrial and Defense applications. Headquartered in Lowell, Massachusetts, MACOM has design centers and sales offices throughout North America, Europe and Asia. MACOM is certified to the ISO9001 international quality standard and ISO14001 environmental management standard.

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