
MACOM Extends Transimpedance Amplifier Portfolio Covering 100G to 800G Applications

- *Linear 53 GBaud PAM-4 MATA-05817 TIA delivers industry-leading low noise performance while supporting bandwidth up to 35 GHz*
- *Quad Linear 53 Gbaud MATA-38134 features 500um spacing enabling QSFP-DD applications up to 800Gbps*
- *TIA's support wire bonding and flip chip assembly flexibility*

Lowell, Massachusetts, March 10, 2020– [MACOM Technology Solutions Inc.](#) (“MACOM”), a leading supplier of semiconductor solutions, today announced availability two new transimpedance amplifiers (TIAs) optimized for use in optical networking applications ranging from 100Gbps DR1 to 800Gbps DR8 and FR8. The new TIAs are available today in flip chip and wire bonding packaging options for fast, flexible deployment in QSFP, QSFP-DD and OSFP optical modules.

The rapid evolution to single lane 100G and multiple lanes 200G, 400G and 800G connectivity is increasing the demand for high-performance, power-efficient optical components needed to maximize bandwidth density in the Cloud Data Center. MACOM’s extended TIA family, complemented by a comprehensive portfolio of seamlessly interoperable MACOM components, is helping our customers accelerate this transition.

The **MATA-05817** delivers low noise performance less than 2 uA RMS typical and supports bandwidth up to 35 GHz. The TIA supports high throughput optical data links in a very low power profile, optimal for use in high density Optical Data Center interconnects. The device is intended for 50G, 100G, 200G and 400G receivers using multilevel modulation such as PAM4.

The **MATA-38134** is a quad 26/53GBaud linear PAM4 TIA with automatic gain and integrated AGC loop. The TIA consumes very low power and is primarily targeted for single-mode fiber applications. The TIA has 500um anode to anode spacing which allows customers to place two devices within the QSFP-DD form factor enabling 800Gbps applications.

Both devices include RSSI for photo-alignment and power monitoring and I2C control of bandwidth, output amplitude, peaking, LOS, gain and other parameters.

For more information on the MATA-05817 and MATA- 38134 devices, 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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