10G-PON ONU/OLT Chipset

**M02180**
- All-in-one 10G/10G low power burst mode laser driver + limiting amplifier with integrated CDR
- Integrated EEPROM, DDMI controller and APD DC-DC controller
- Low power operation <100 mA
- 10G Dual-Closed-Loop (DCL) laser driver operation
- Integrated laser safety features and laser shutdown switch

**M02142**
- 11.3G Low power burst mode limiting Amplifier
- 3 mV input sensitivity at 11.3 Gbps
- Fast data settling and fast LOS output
- In low cost 3 x 3 mm QFN package

**MATA-02135**
- 10G Low power and high sensitivity TIA
- Typical 30 mA at +3.3 V
- Typical -33 dBm sensitivity with APD at 1e-3 BER
- Support PINA or PINK based RSSI

**MAMF-011095**
- L-PIC controller chip
- I2C interface
- Array of ADC and DACs

**MATA-02238**
- New gen low power 10.3G dual date burst mode TIA
- Typical -32 dBm sensitivity with APD at 1e-3 BER
- Selection between fixed rate (10G mode only) or dual rate (1G/10G mode)

**157D-10C-LT6CD**
- Electro-Optic Modulated Laser (EOML)
- SiPh-based L-PIC chip integrates 1577 nm CW DFB laser, MZ modulator, monitor photodiode, and temperature sensor
- Available in a hermetic TO-60 package with thermoelectric cooler (TEC)
- Auto calibration and programmable performance via controller chip

**127D-10I-LT5CC**
- Directly modulated 10Gbps Distributed Feedback (DFB) laser diode devices at 1270 nm
- Available in hermetic TO-56 package with aspherical lens (10.1 mm focal length), and co-packaged InGaAs monitoring photodiode

**127D-02I-VT5AB**
- Directly modulated 2.5 Gbps 1270 nm DFB Narrow Farfield (NFF) laser diode chips
- Available with aspherical lens cap (FL=7.5 mm) in hermetic TO-56 package, integrated InGaAs monitoring photodiode and Type B pinout (common anode)