

Technical Specifications

Ref : ELE/July2018/AOM

2×1 Fiber-coupled Acousto-Optic Modulator

The component to be purchased is **2×1 fiber-coupled Acousto-Optic Modulator (AOM)** along with **2 channel RF driver**. The required specifications of 2×1 fiber-coupled Acousto-Optic Modulator (AOM) are as follows:

1. Number of input ports : 1
2. Number of output ports : 2
3. Wavelength of operation : 1550 nm
4. Optical wavelength range : ± 25 nm
5. Maximum optical power : ≥ 200 mW
6. Switching time : ≤ 30 nsec
7. Delay time (first pulse) : 200 to 400 nsec
8. Maximum RF power : < 2 W/channel
9. Extinction ratio : ≥ 50 dB
10. Input impedance : 50Ω
11. Fiber & connector type : standard SMF, FC/APC
12. Insertion loss : ≤ 6.5 dB
13. Polarization dependent loss : ≤ 0.5 dB
14. Back reflection : at least 40 dB down
15. Modulation : TTL Compatible, DC-50 MHz.

Number of such units and compatible drivers to be purchased : 4 sets

These specifications are required to switch high speed (>10 Gbps) optical signal with a very good extinction in order to enable reception. The vendor should have sold out more than 100 units of the product already. Vendor must quote along with the compliance table for the specifications and charges should include CIF.

The technical and commercial bids to be sent in separate sealed envelopes so as to reach the following address on or before 3rd August 2018.



(Dr. Deepa Venkitesh)

(Name and Signature of the Project coordinator)