

MT110-IR25-3FIO

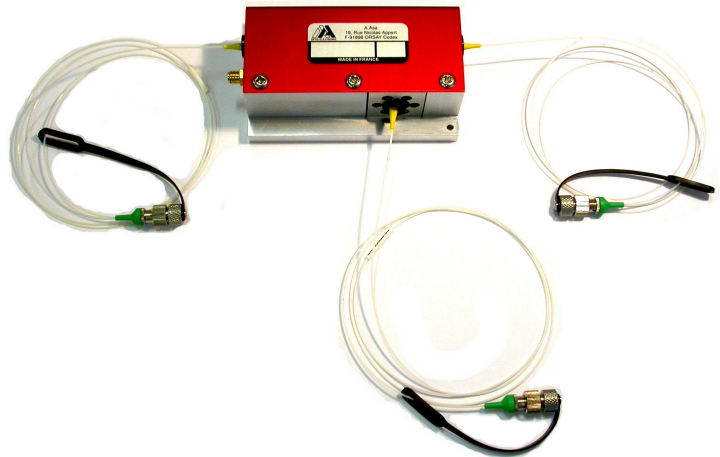
Fiber pigtailed AO

Fiber pigtailed 3 ports AO for 1064 nm

- 1000 to 1100 nm
- Single mode SM or Polarization Maintening PM Fibers
- 0 & 1st orders fiber pigtailed

This fiber pigtailed modulator is a fast modulator dedicated to IR lasers such as 1030, 1053, 1064 nm.

Fiber is a single mode fiber or polarization maintaining. Both outputs 0 and first order are fiber pigtailed.

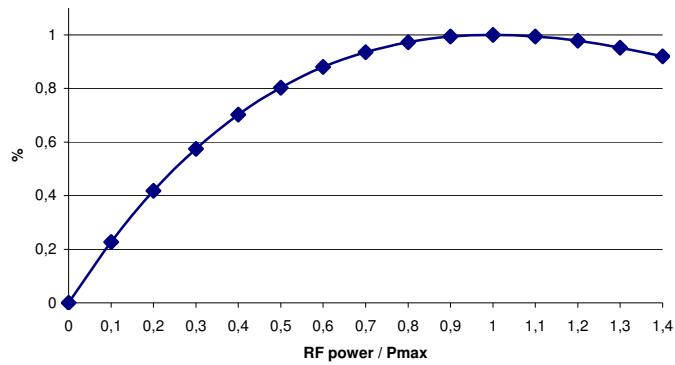


Specifications – 3 ports

| | |
|--|--|
| Material | TeO ₂ [L] |
| Optical Wavelength range | Optimized for a Single wavelength in 1000 to 1100 nm |
| Input Light polarization | Linear with Option PM fiber / Random with Option SM fiber |
| Output Light polarization | Linear with Option PM fiber / Random with Option SM fiber |
| Polarization dependence losses | < 0.5 dB |
| AO Light Frequency shift | « +1 » order : + 110 MHz |
| Total Insertion losses ¹ | Order 1 = Nom 2.5 dB, < 3 dB Order 0 = Nom 2 dB, < 2.5 dB |
| Rise/Fall time | ≤ 25 ns |
| Extinction ratio | Order 1 = Nom 50 dB, > 45 dB Order 0 = > 10 dB |
| Fiber type | Single mode (HI1060 dia 900µm), Polarization Maintaining |
| Fiber connectors | FC/APC (On request FC/PC) |
| Pigtail length | Nominal 1 m |
| Max accepted laser power | 5 watts |
| Max accepted RF Power | 2 W |
| Electrical impedance | 50 Ohms |
| VSWR | < 1.2/1 |
| Size | 100 x 65 x 37 mm ³ |
| Operating Temperature | 10 to 40 °C |

¹ including transmission through the crystal, diffraction efficiency and coupling losses

Relative Diffraction Efficiency vs RF Power



MT110-IR25-3FIO-SM-5

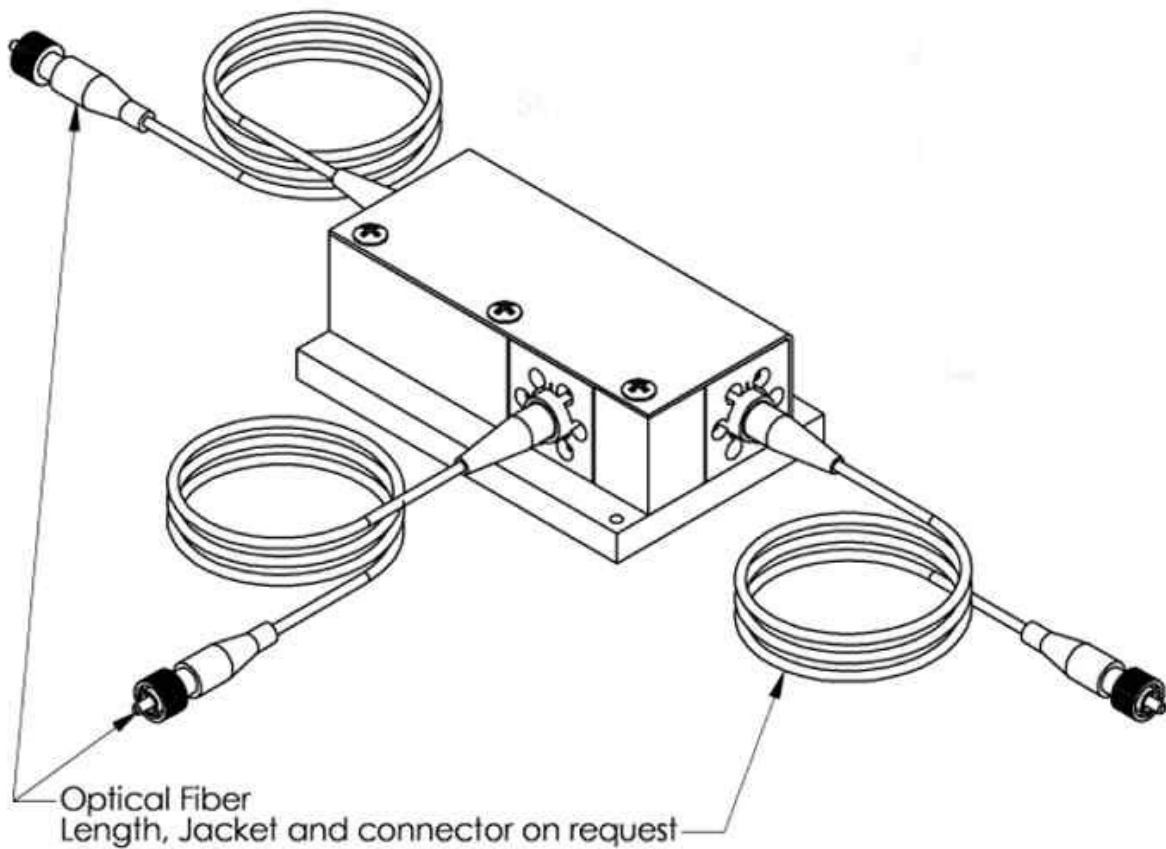
SM or PM : Single mode or Polarization Maintaining fibers

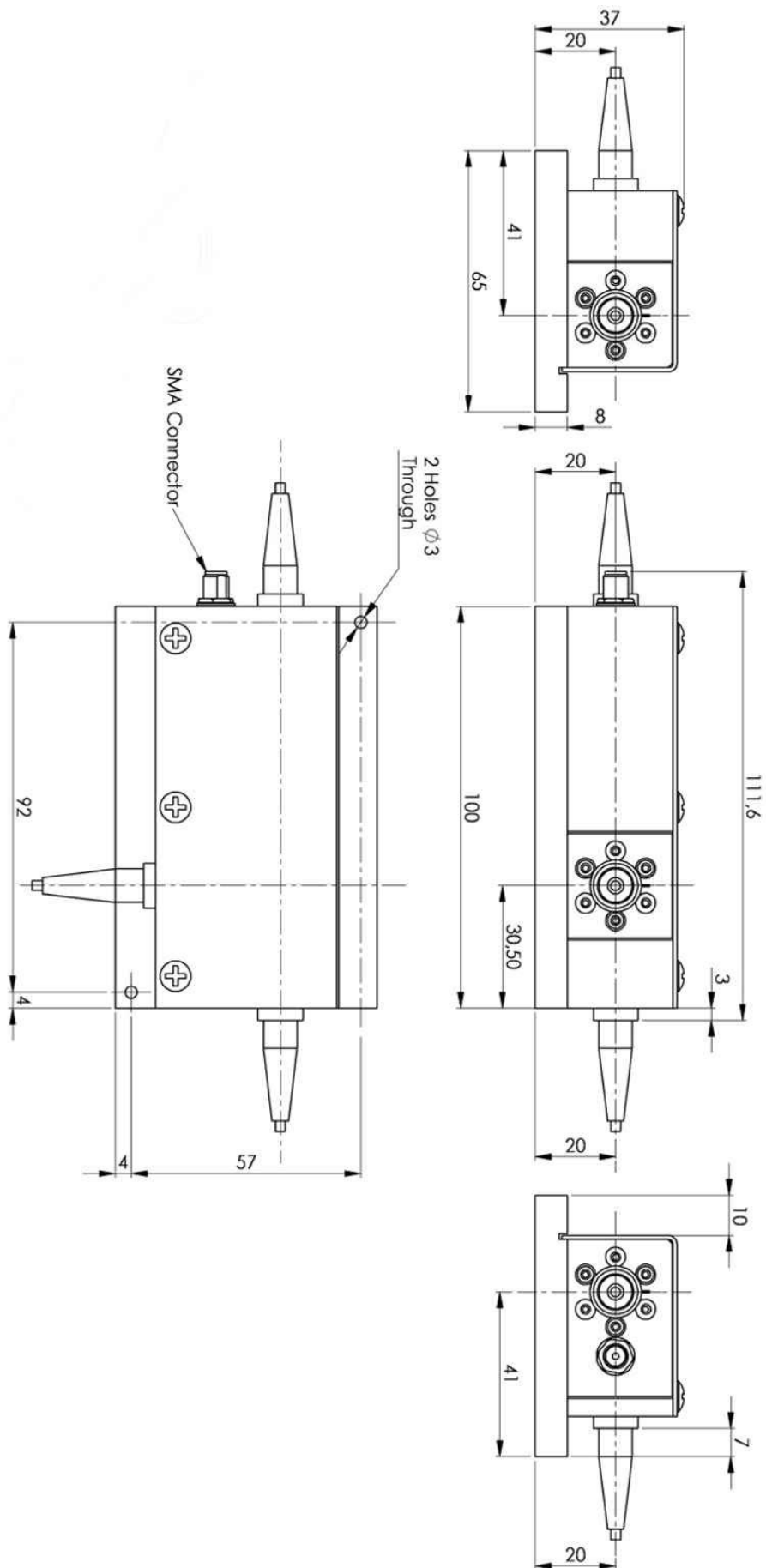
IR : wavelength nm

5 : Acceptable laser power 5 watts

Outline Drawing

sizes in mm





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