

## Section 2 - Principle of Operation

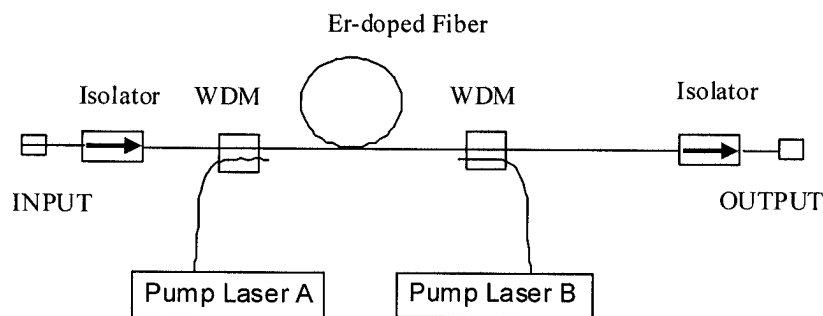


Figure 1. Scheme of AMP-STL20 Er-Fiber Amplifier

### Gain Medium and Pump Laser

The gain-medium of this amplifier is Er-doped fiber. The Er-doped fiber is pumped by 980 and 1480 nm diode lasers. The pump current influences the gain and saturation power of the amplifier.

#### WARNING:

The pump laser can generate up to 300 mW optical power near 980 and 1480 nm. This power level can cause permanent eye damages or skin burns. Under the normal operating condition, the pump laser light is confined inside the product. However, any disassembly of the product may expose the laser, and is strongly discouraged.