

Applications

- Fiber optic sensing
- Optical tomography
- Component characterization
- High Power Fiber Laser

Key Features

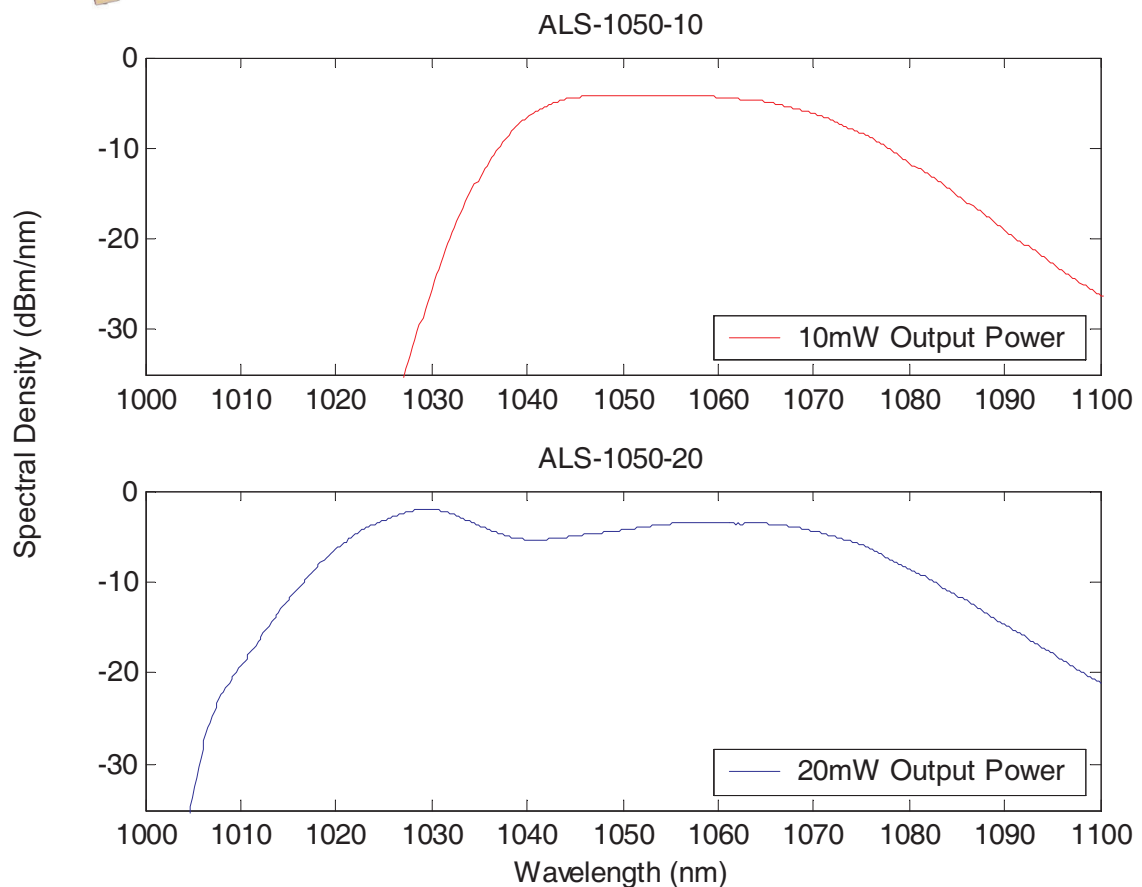
- Wide spectral range
- High output power
- Good spectral stability
- Compact size
- Good performance cost ratio
- Two year warranty

Description

Amonics' ALS-1050 series are Ytterbium-doped fiber ASE broadband light sources in the wavelength range of 1000nm to 1100nm offering 10mW and 20mW output power, which is particularly useful for 1060nm fiber laser component characterization.

The benchtop version incorporates a user-friendly front panel housing with a LCD monitor display, key switch, power adjust control knob and optical connectors. RS232 computer interface is also equipped on the rear panel.

The OEM module version is an ideal building block for OEM system integrators especially for fiber optic sensing and optical tomography applications. It requires only a single +5V power supply with low power consumption.



1050nm ASE Broadband Light Source Specifications

| | ALS-1050-10 | ALS-1050-20 |
|-----------------------|---|------------------|
| Output Power | Min. 10 mW | Min. 20 mW |
| Spectral Range | 1040nm to 1075nm | 1020nm to 1080nm |
| Min. Spectral Density | -12dBm/nm | |
| Output Stability | < +/- 0.03dB (over 8 hrs), < +/-0.005dB (over 5 mins) | |
| Output Isolation | > 40dB | |
| Output Polarization | < 5% | |

* Other output power models are available upon request

General Enviromantal Parameters

| Parameter | Unit | Benchtop | Module |
|-----------------------------|------|--------------------------------|------------------------------|
| Operation Temperature Range | °C | 0 to 40 | 0 to +60 |
| Storage Temperature Range | °C | -10 to 70 | -10 to +70 |
| Power Supply | V | 80 – 240 VAC, 43-63Hz | 5.0 VDC |
| Dimensions | mm | 250(W) x 300(L) x 100(H) | 100(W) x 120(L) x 18(H) |
| Electrical Connector | - | NA | 14-pin MIL Socket |
| Protection | - | Pump laser over heat warning | Pump laser over heat warning |
| LCD Display | - | Pump Laser Current (mA) | NA |
| Control | - | Keylock switch, output power | NA |
| Computer Interface | - | RS232 | NA |
| Optical Connector | - | FC/APC, FC/UPC, SC/APC, SC/UPC | |
| Optical Fiber | - | Puremode 1060 | |



Ordering Information

| | | |
|--------------|------------------|---|
| Product Code | ALS-1050-xx-y-zz | xx: Output Power in mW y: M for module, B for Benchtop zz: FA for FC/APC, FC for FC/UPC SA for SC/APC, SC for SC/UPC |
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