

# **ROITHNER LASERTECHNIK**

**A-1040 WIEN, FLEISCHMANNGASSE 9**

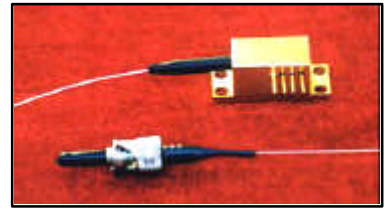
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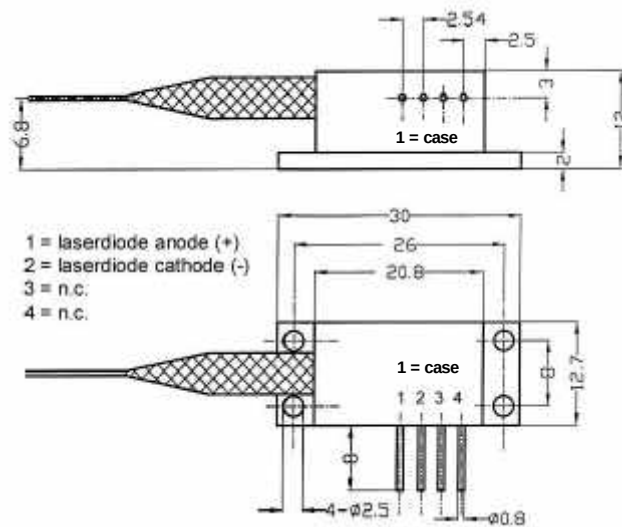
HTL81S-600

HTL81S-750

HTL81S-1000



## **HIGH POWER FIBER COUPLED LASERDIODE**



Dimensions in mm

| <b>CHARACTERISTIC</b>        | <b>HTL81S-600</b> | <b>HTL81S-750</b> | <b>HTL81S-1</b>   |
|------------------------------|-------------------|-------------------|-------------------|
| Output Power cw              | 600 mW            | 750 mW            | 1.5 W             |
| Spectral Width (FWHM)        | < 4 nm            | < 4 nm            | < 4 nm            |
| Working Temperature          | -40 ... + 70 °C   | -40 ... + 70 °C   | -40 ... + 70 °C   |
| Expected Lifetime            | 5.000 -10.000 h   | 5.000 -10.000 h   | 5.000 -10.000 h   |
| Wavelength Temp. Coefficient | 0.3 nm/K          | 0.3 nm/K          | 0.3 nm/K          |
| Center Wavelength (FWHM)     | 810 nm ± 10 nm    | 810 nm ± 10 nm    | 810 nm ± 10 nm    |
| Threshold Current            | 250 mA            | 250 mA            | 500 mA            |
| Operating Current            | 1250 mA           | 1250 mA           | 2500 mA           |
| Operating Voltage            | < 2 V             | < 2 V             | < 2 V             |
| Slope Efficiency             | > 0.6 W/A         | > 0.75 W/A        | > 0.75 W/A        |
| Series Resistance            | < 0.2 Ω           | < 0.2 Ω           | < 0.2 Ω           |
| Fiber Core Size              | 50 µm             | 100 µm            | 100 µm            |
| N.A. (optional)              | 0.22              | 0.22 (0.12)       | 0.22              |
| Fiber Length (optional)      | 1 m (2 m)         | 1 m (2 m)         | 1 m (2 m)         |
| Connector Type Available     | FC / ST / SMA-905 | FC / ST / SMA-905 | FC / ST / SMA-905 |

### **Applications:**

- Laser pumping
- Medical
- Printing
- Heating
- Material processing
- Marking

