

**Datasheet for #sbcw657 DN**Recommendations:

Please read the starter kit user manual (at least installation chapter 5), if available, and have a look at the FAQ at <http://www.alpeslasers.ch/alfaq.pdf>

**WARNING:** Operating the laser with higher current or voltage than specified in this document may cause damage and will result in loss of warranty, unless Alpes Lasers has permitted to do so!

**WARNING:** Beware of the polarity of the laser. This laser has to be powered with negative current on the laser contact (= bonding pad, corresponding to the label "laser" on the LLH) and the positive current on the base contact (= submount, corresponding to the label "base" on the LLH). To use with a power-supply ILX Lightwave LDX-3232 or equivalent.

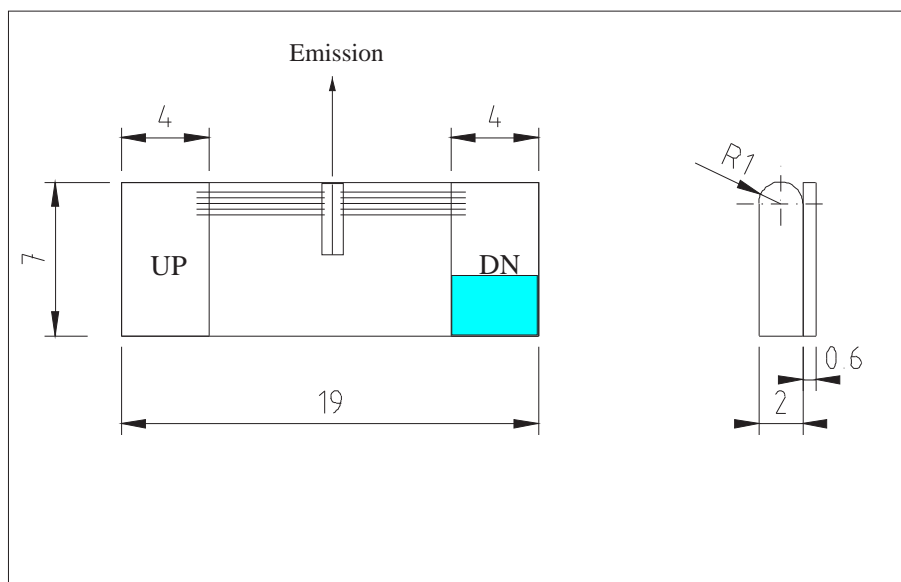


Figure 1: Support mounting for #sbcw657 DN (please note that the laser is connected to the DN pad drawn in blue)

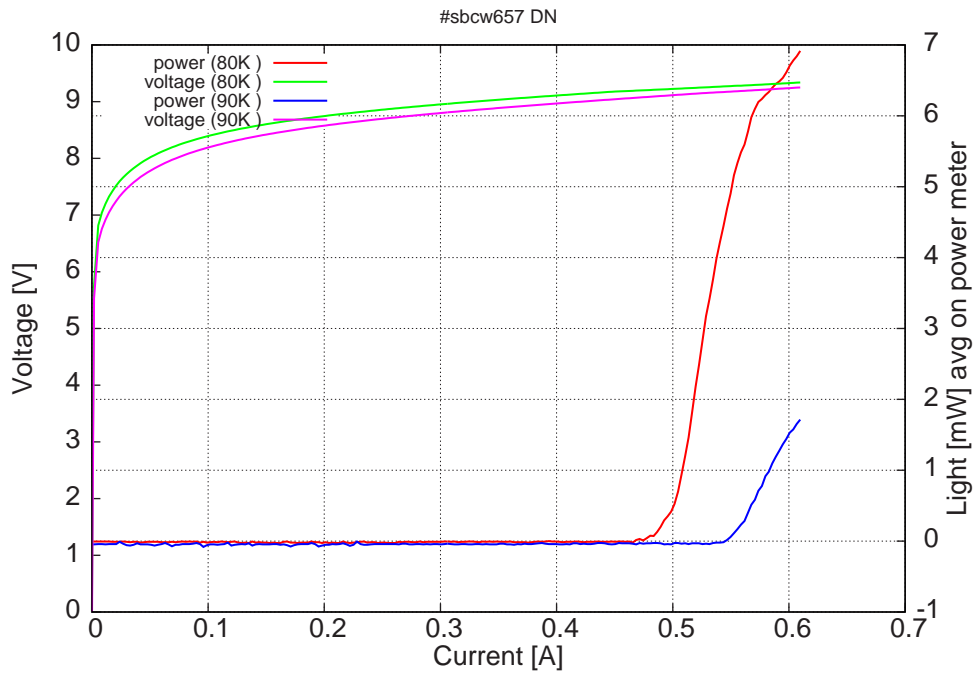


Figure 2: peak voltage and average power vs peak current in continuous-wave operation (doesn't lase at 95K) (the solid squares indicate the maximum singlemode emitted power)

Note: at 80K:  $I_{th}=490\text{mA}$  /  $V_{th}= 9.17\text{V}$  (4-wires measurements)  
 Maximum operation current: 0.61A at 80K and 90K.

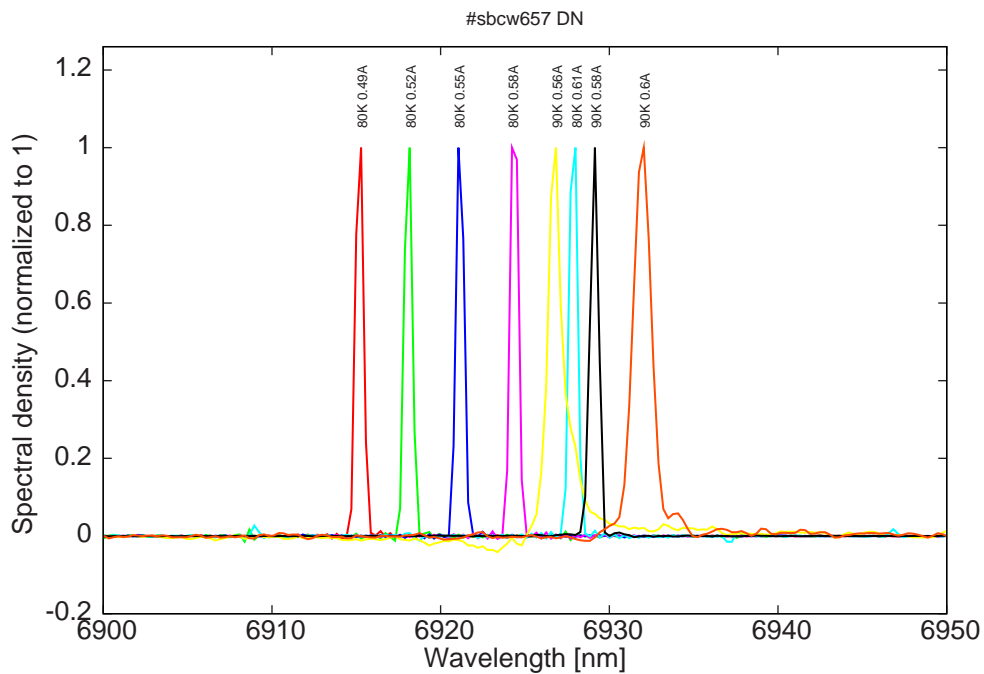


Figure 3: spectra at 80K and 90K

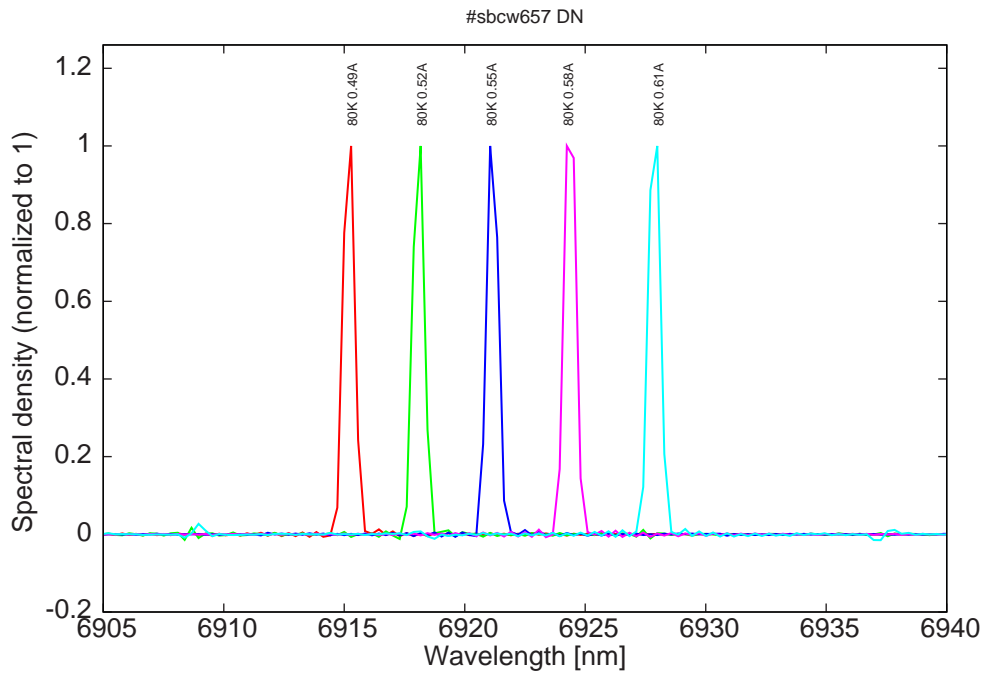


Figure 4: spectra at 80K

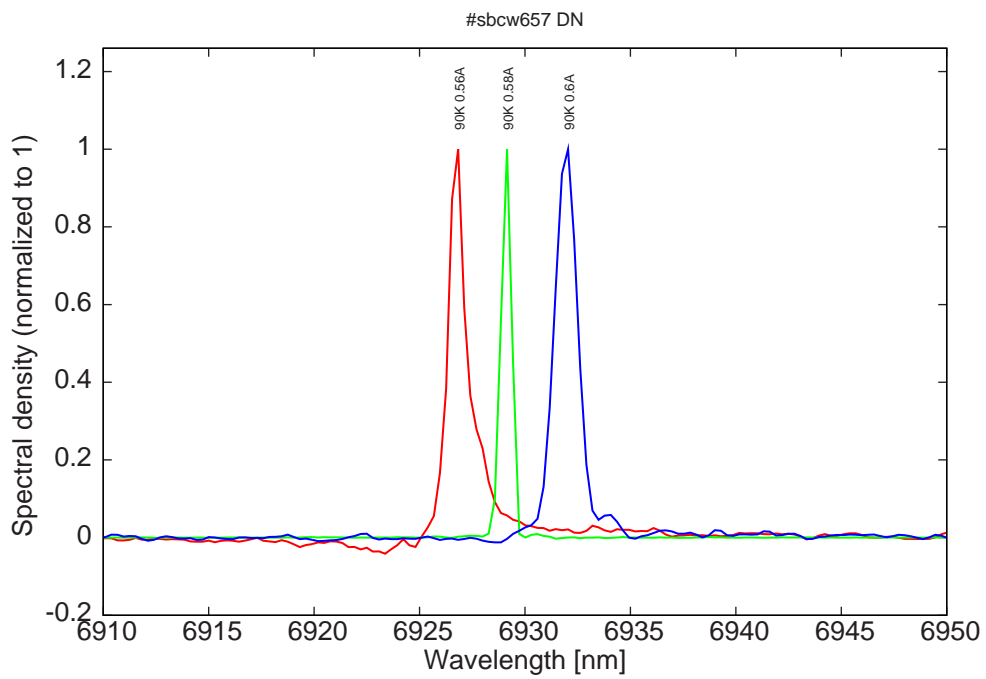


Figure 5: spectra at 90K