

## Datasheet for #sbcw11262 DN

### Recommendations:

Please read the User Manual and have a look at the FAQ at  
<http://www.alpeslasers.ch/?a=142>

**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 bias and positive bias on the specific zones drawn below. To be used with a high compliance CW laser driver capable of reaching the operating current and voltage indicated in this datasheet, or up to 2.5A/20V.

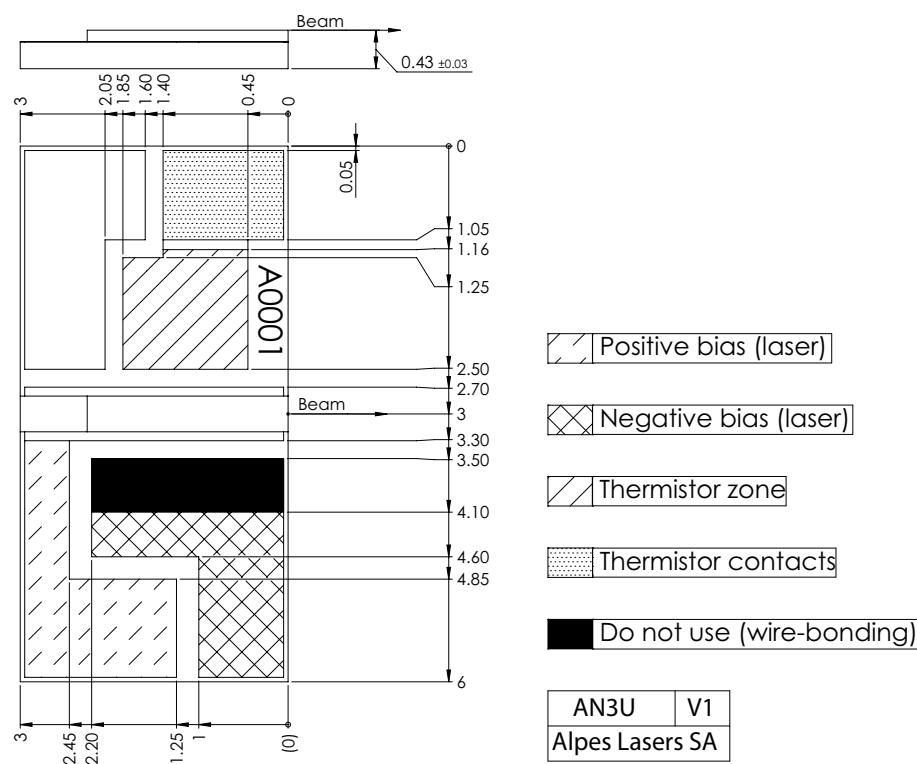


Figure 1: Mechanical and electrical interface for #sbcw11262 DN (please note that AlN submount numbering is A04A4)

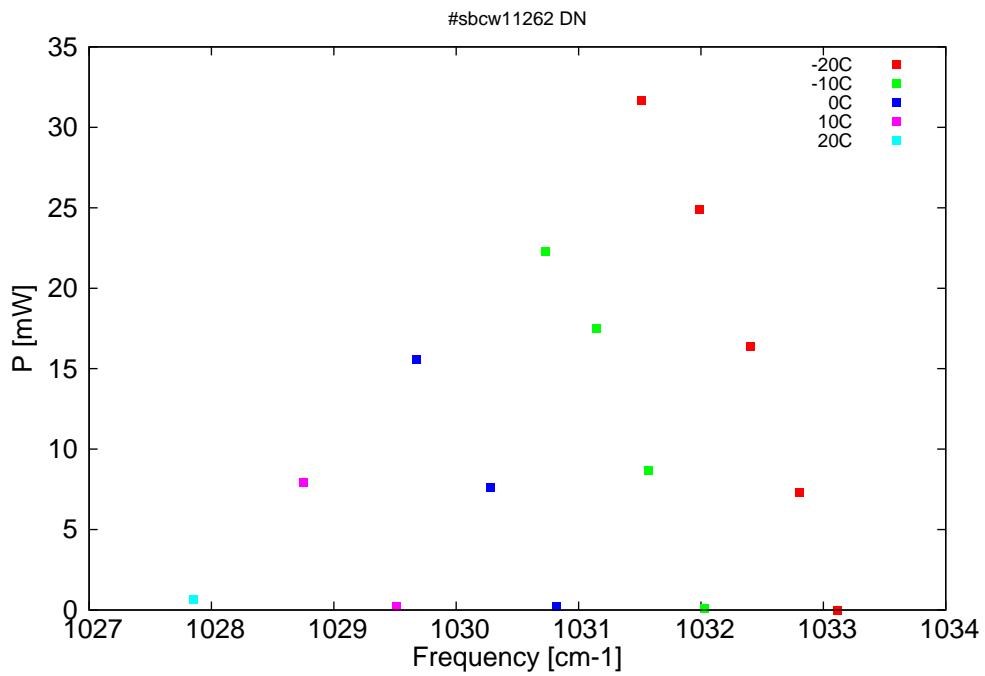


Figure 2: Output power as a function of the singlemode emission frequencies and temperatures

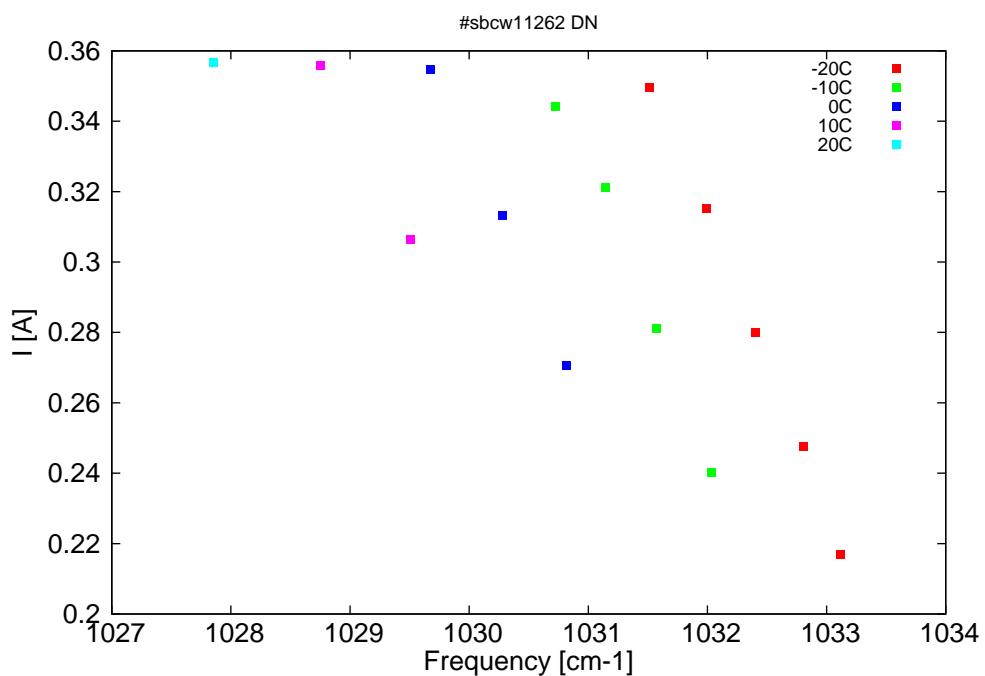


Figure 3: Applied DC current as a function of singlemode emission frequencies and temperatures

$\lambda$ [nm]	$\nu$ [cm $^{-1}$ ]	P[mW]	Temp[°C]	$U_{LASER}$ [V]	I[A]
9679.5	1033.1	0	-20	10	0.22
9682.4	1032.8	7.3	-20	10.5	0.25
9686.1	1032.4	16.4	-20	11	0.28
9690	1032	24.9	-20	11.5	0.32
9694.5	1031.5	31.7	-20	12	0.35
9689.6	1032	0.1	-10	10.3	0.24
9694	1031.6	8.7	-10	10.9	0.28
9698	1031.1	17.5	-10	11.4	0.32
9701.9	1030.7	22.3	-10	11.8	0.34
9701	1030.8	0.2	0	10.6	0.27
9706.1	1030.3	7.6	0	11.2	0.31
9711.8	1029.7	15.6	0	11.8	0.35
9713.4	1029.5	0.2	10	11	0.31
9720.5	1028.7	7.9	10	11.6	0.36
9729	1027.9	0.7	20	11.5	0.36

Table 1: Singlemode optical output power as function of operating parameters.

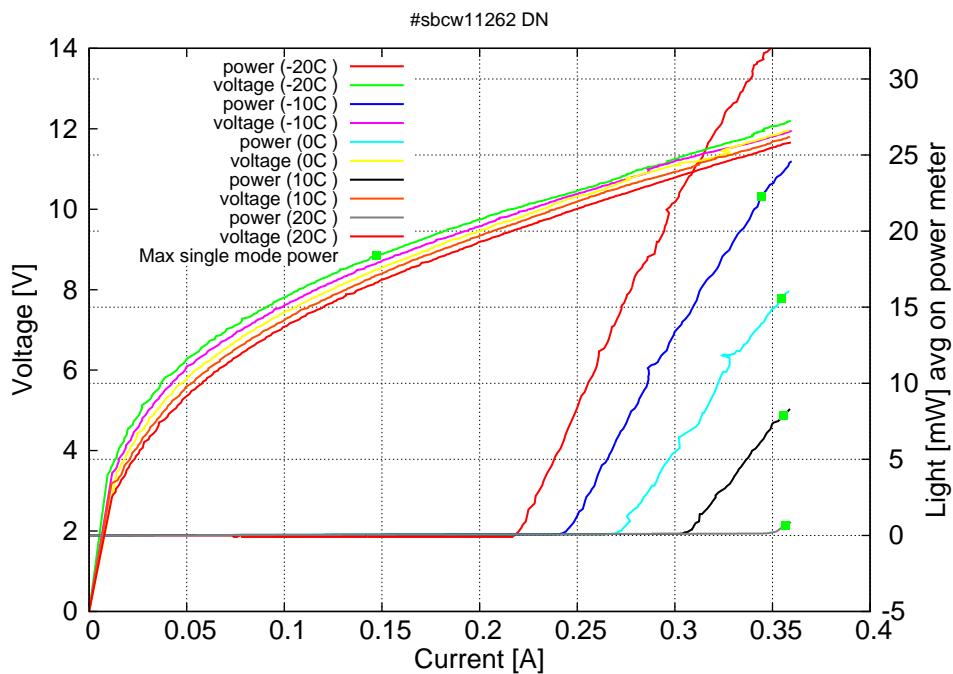


Figure 4: voltage and avg power vs current in continuous-wave operation (the solid squares indicate the maximum singlemode emitted power)

Note: at -20C:  $I_{th}=0.22A$  /  $V_{th}=10.0V$  (2-wires measurements). Maximum operation current: 0.36A for all temperatures.

Figure 3: spectra at different temperatures for various DC currents

