

## Datasheet for #sbcw26115 DN

### Recommendations:

Please read the User Manual and have a look at the FAQ at  
<https://www.alpeslasers.ch/resources/#faq>

**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 #sbcw26115 DN (please note that AlN submount numbering is A0VMX)

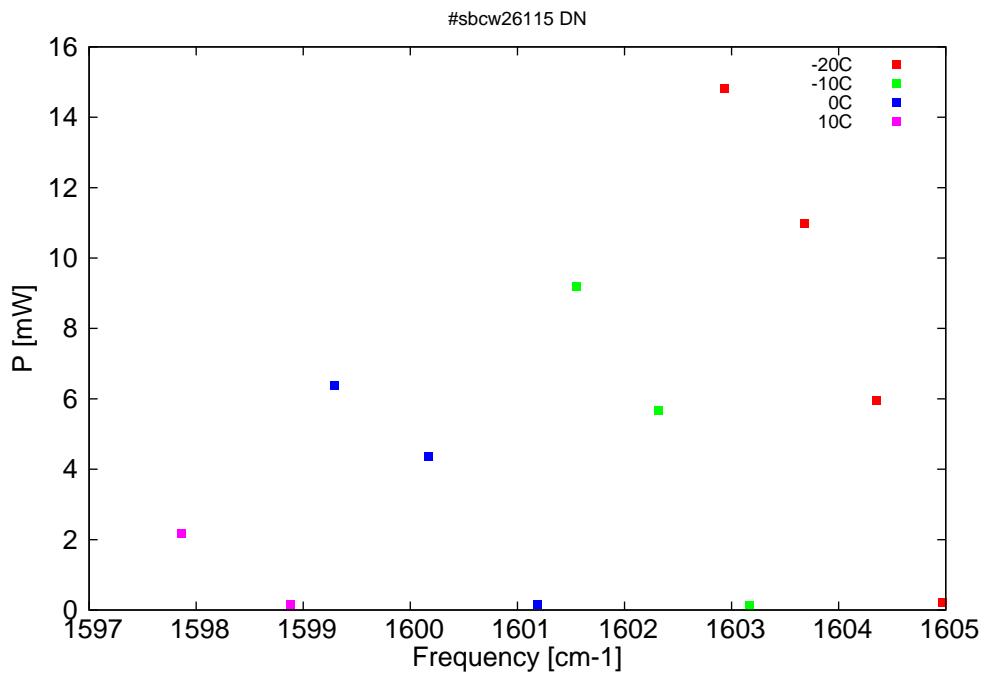


Figure 2: Output power as a function of the singlemode emission frequencies and temperatures

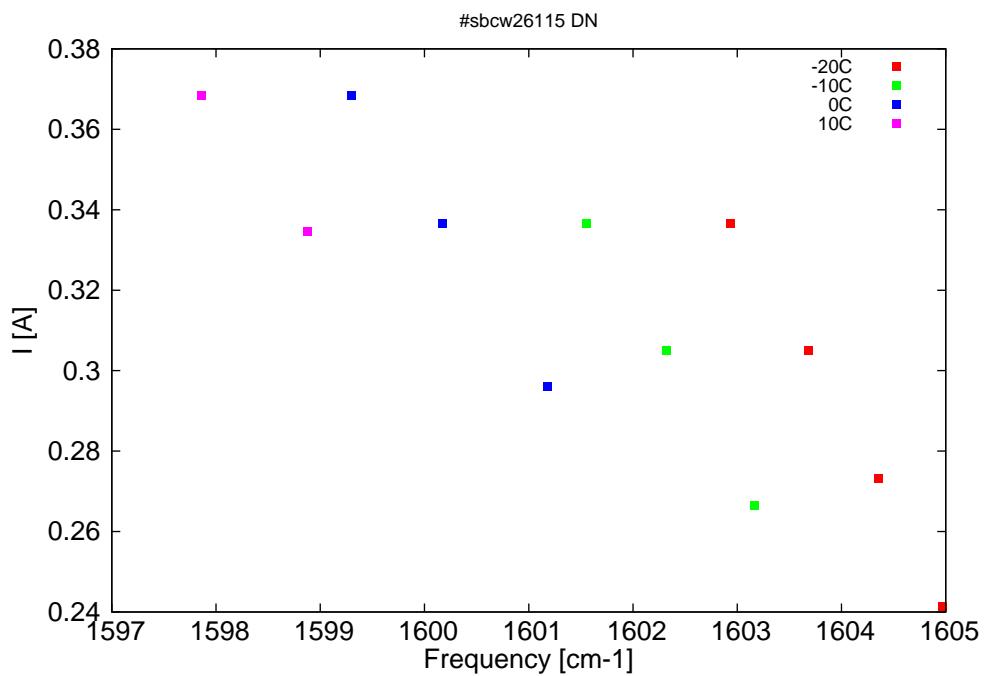


Figure 3: Applied DC current as a function of singlemode emission frequencies and temperatures

$\lambda$ [nm]	$\nu$ [cm $^{-1}$ ]	P[mW]	Temp[°C]	$U_{LASER}$ [V]	I[A]
6230.6	1605	0.2	-20	9.44	0.241
6233	1604.4	6	-20	9.71	0.273
6235.7	1603.7	11	-20	10	0.305
6238.6	1602.9	14.8	-20	10.3	0.337
6237.6	1603.2	0.1	-10	9.56	0.267
6240.9	1602.3	5.7	-10	9.9	0.305
6244	1601.5	9.2	-10	10.2	0.337
6245.4	1601.2	0.2	0	9.74	0.296
6249.3	1600.2	4.4	0	10.13	0.337
6252.8	1599.3	6.4	0	10.45	0.368
6254.4	1598.9	0.2	10	10.05	0.335
6258.4	1597.9	2.2	10	10.39	0.368

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

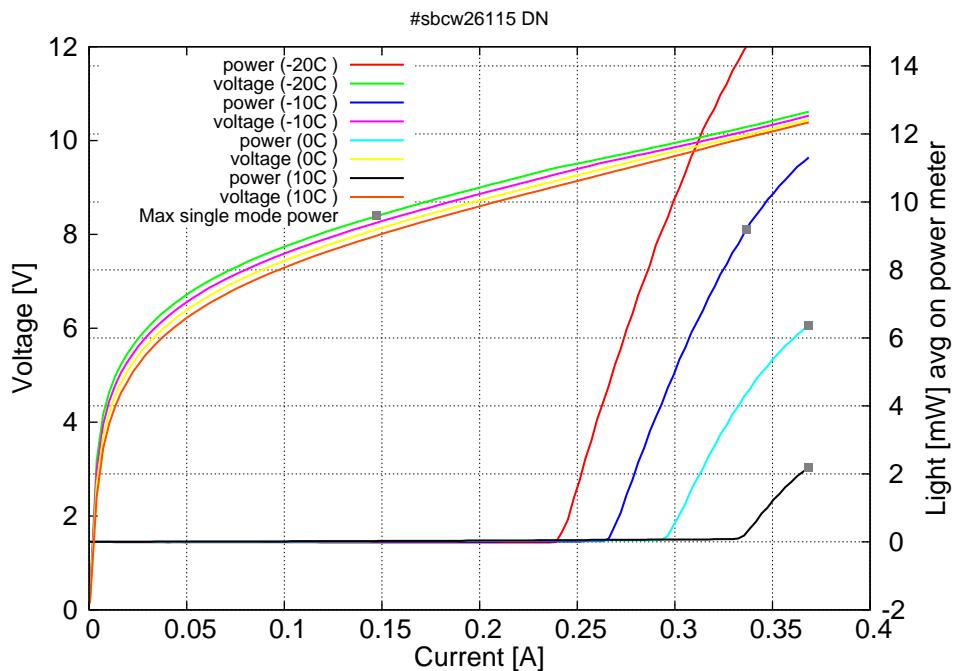


Figure 4: voltage and avg power vs current in continuous-wave operation (the solid squares indicate the maximum singlemode emitted power)

Note: at -20C:  $I_{th}=0.24A$  /  $V_{th}=9.4V$  (2-wires measurements). Maximum operation current: 0.34A between -20C and -10C, 0.370A between 0C and 10C

Figure 3: spectra at different temperatures for various DC currents

