

Datasheet for #sb25895 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 longer pulses, higher repetition rate, higher voltage or higher current than specified in this document may cause damage. It will result in loss of warranty, unless agreed upon with Alpes Lasers!

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.

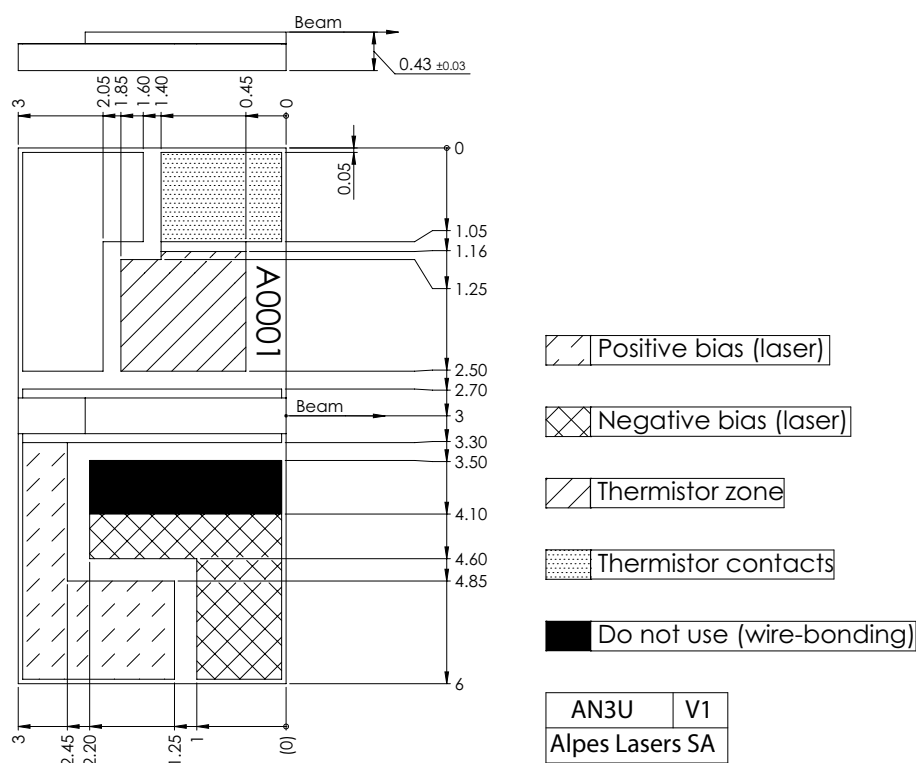


Figure 1: Mechanical and electrical interface for #sb25895 DN (please note that AlN submount numbering is A0V09)

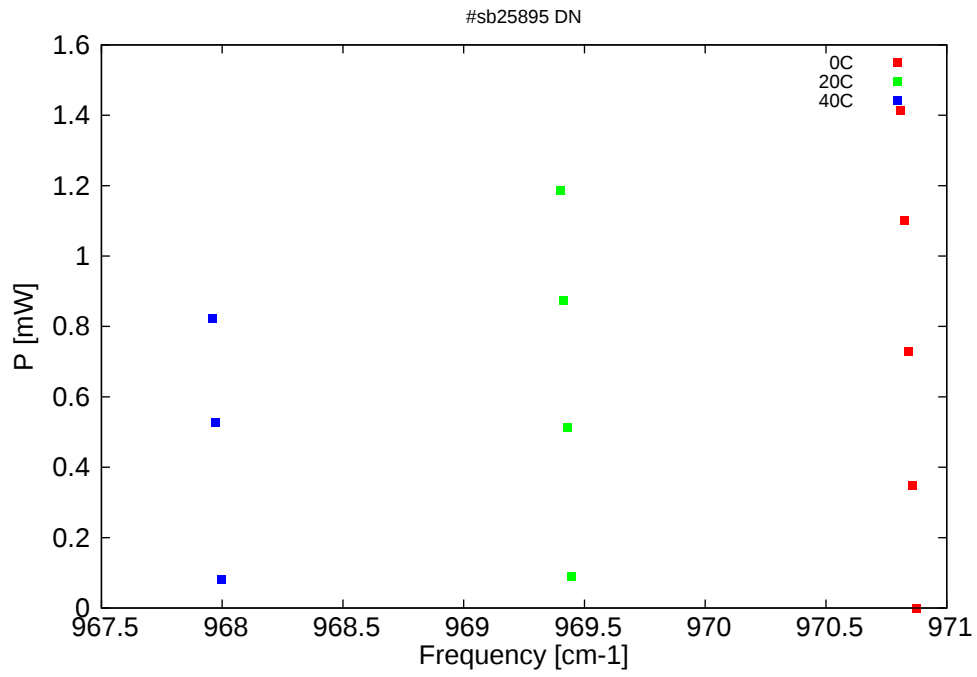


Figure 2: Output power as a function of the singlemode emission frequencies and temperatures

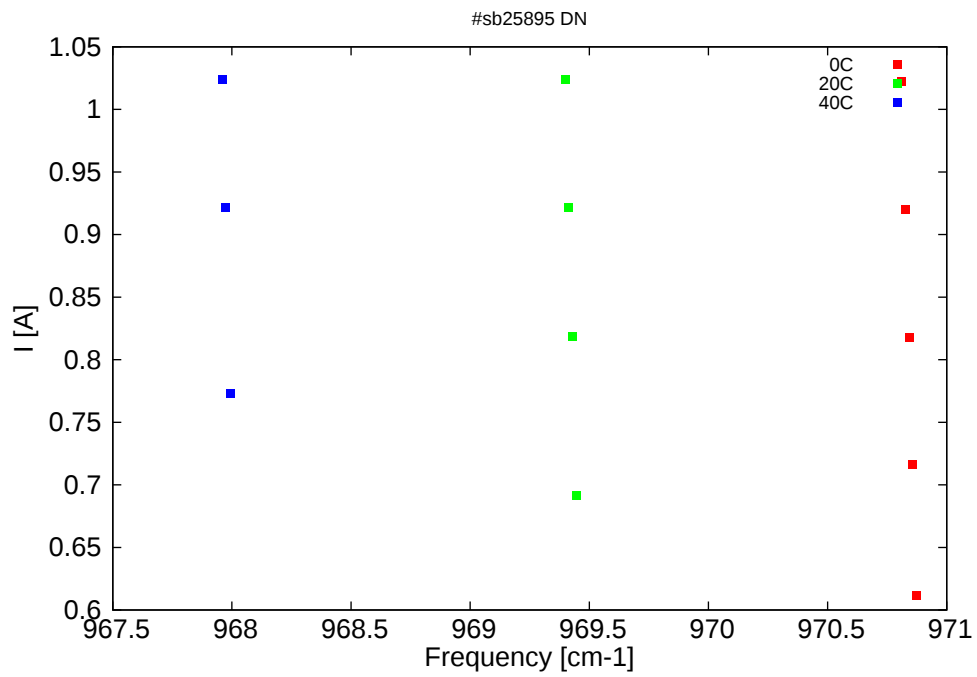


Figure 3: Peak current as a function of singlemode emission frequencies and temperatures

λ [nm]	ν [cm ⁻¹]	P[mW]	Temp[°C]	U_{pulse} [V]	I_{pulse} [A]
10300	970.9	0	0	8.74	0.612
10300.2	970.9	0.3	0	9.15	0.716
10300.3	970.8	0.7	0	9.55	0.818
10300.5	970.8	1.1	0	9.99	0.92
10300.7	970.8	1.4	0	10.5	1.022
10315.2	969.4	0.1	20	8.99	0.692
10315.3	969.4	0.5	20	9.51	0.819
10315.5	969.4	0.9	20	9.96	0.921
10315.7	969.4	1.2	20	10.45	1.024
10330.6	968	0.1	40	9.31	0.773
10330.9	968	0.5	40	9.95	0.921
10331	968	0.8	40	10.43	1.024

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

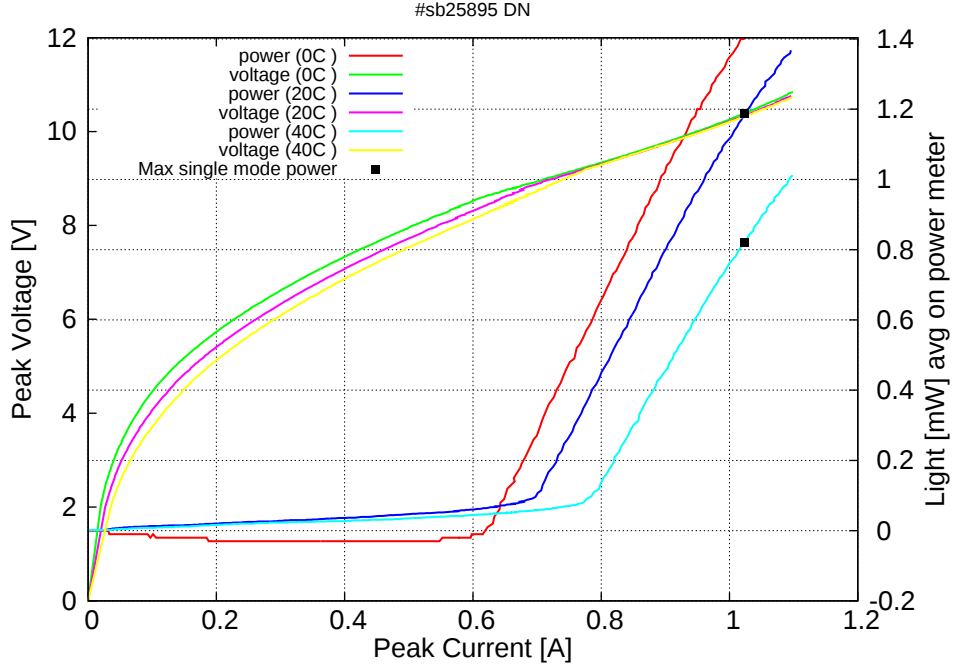


Figure 4: Peak voltage and average power vs peak current at 2% duty-cycle (500ns pulses on the laser) (the solid squares indicate the maximum singlemode emitted power)

Figure 3: spectra at different temperature for various peak currents (20ns pulses on the laser)

