ACCESS LASER
Member of the TRUMPF Group

Wavelength vs. Micrometer Position

Laser Model: AL50G-CO	PWM Parameters: 100% Duty Cycle
Laser SN: 212607-211705	Room Temperature: 19.0 ± 1.0 °C (67.0 ± 2.0 °F)
Set Point Temperature: 15.0°C	(59.0°F)

Wavelength (µm)	Micrometer (mm)	Mode	Power (W)
6.1287	5.008	-	< 0.01
6.0997	5.290	-	< 0.01
6.0377	5.908	-	0.03
6.0236	6.048	-	0.02
6.0095	6.157	-	0.04
6.0095	6.211	-	0.02
5.9956	6.283	-	0.03
5.9956	6.339	-	0.02
5.9818	6.440	-	0.01
5.9778	6.450	-	< 0.01
5.9778, 5.9818	6.472	-	0.06
5.9778	6.478	-	0.02
5.9635	6.580	-	0.01
5.9635	5.609	-	0.07
5.9635	6.641	-	0.03
5.9494	6.739	-	0.03
5.9494	6.780	-	0.01
5.9216	7.002	-	0.05
5.9079	7.119	-	0.06
5.8945	7.250	-	0.03
5.8770	7.377	-	0.06
5.8682	7.460	-	< 0.01
5.8631	7.501	3	0.11
5.8494	7.626	3	0.14
5.8360	7.719	-	0.05

Laser emission occurs at other micrometer settings. Listed in this table are those that are judged to have the best combination of mode, power, line purity and stability.
Classifications of mode: Excellent(4), Good(3), Okay(2), Poor(1).
At different duty cycles, frequencies, and room temperatures the table may vary by up to ±0.100mm, also the power and mode may be different. Changing laser temperature by as little as 0.5°C can cause significant changes in mode and power at any particular location.
All data was taken after laser warm up of at least 30 mins at CW
Measurements were made with Bristol 771B Spectrum Analyzer. This instrument has a spectral resolution of 2 GHz, so transition lines with spacing < 2 GHz may not have been detected or reported. Wavelengths are reported as measured.

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Wavelength	Micrometer	Mode	Power
(µm)	(mm)		(W)
5.8360	7.740	3	0.13
5.8204	7.872	-	0.06
5.8094	7.942	-	0.02
5.8094, 5.8064	7.999	3	0.39
5.8094, 5.8064	8.030	3	0.35
5.7964, 5.7927	8.088	3	0.12
5.7927, 5.7964	8.118	3	0.36
5.7927, 5.7964	8.149	3	0.36
5.7927	8.172	-	0.05
5.7791, 5.7835	8.199	3	0.08
5.7791, 5.7835	8.230	3	0.21
5.7791	8.265	2	0.27
5.7524, 5.7514	8.500	4	0.63
5.7377, 5.7393	8.593	3	0.50
5.7264	8.710	3	0.22
5.7137	8.820	3	0.30
5.7011	8.898	2	0.07
5.6971, 5.7011	8.938	4	0.44
5.6971	8.970	4	0.46
5.6841, 5.6887	9.046	4	0.30
5.6840	9.078	3	0.40
5.6706	9.153	4	0.40
5.6705	9.190	4	0.88
5.6710	9.210	3	0.35
5.6583	9.261	3	0.34
5.6569, 5.6583	9.301	4	0.82
5.6436	9.400	4	0.60
5.6331	9.481	4	0.20
5.6331	9.550	4	0.27
5.6173, 5.6207	9.612	3	0.70
5.6173	9.632	3	0.71
5.6044	9.719	4	0.69
5.6044	9.740	4	1.12
5.5916	9.821	4	0.72

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(µm)	(mm)		(W)
5.5916	9.849	4	1.35
5.5651	10.034	3	0.50
5.5651	10.062	4	0.83
5.5521, 5.5544	10.128	3	0.37
5.5522, 5.5545	10.142	3	0.73
5.5394, 5.5423	10.246	4	0.88
5.5394, 5.5423	10.271	3	1.00
5.5267	10.348	4	0.70
5.5267	10.370	3	1.14
5.5143	10.448	4	1.00
5.5145	10.464	4	1.40
5.5014	10.550	4	0.82
5.5015	10.575	4	1.58
5.4886, 5.4896	10.653	2	0.80
5.4886, 5.4896	10.680	4	1.57
5.4759, 5.4777	10.752	2	0.90
5.4759, 5.4777	10.778	3	1.50
5.4633, 5.4658	10.850	2	0.52
5.4633	10.877	2	0.80
5.4509	10.952	2	0.48
5.4509	10.973	3	1.30
5.4395	11.071	3	0.85
5.4266	11.147	2	0.90
5.4266	11.173	4	2.12
5.4139	11.272	4	1.54
5.4014	11.368	4	1.29
5.3891	11.468	3	0.96
5.3770, 5.3786	11.560	3	0.90
5.3649, 5.3659	11.652	3	1.15
5.3532	11.740	3	0.50
5.3410	11.843	4	0.81
5.3288	11.938	4	0.60
5.3167	12.031	4	0.36
5.3047	12.122	4	0.20

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