COHERENT

# Chameleon Ultra II Test Sheet

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## Chameleon Ultra II Identification:

| | |
|---|---|
| Chameleon Serial Number: | GDP.1093390.8399 |
| Chiller Serial Number: | N/A |
| Recirculator Serial Number: | N/A |

## Chameleon Ultra II Performance:

| Parameter | Specification | Conformity |
|---|---|---|
| Peak Power[1] | >3.5 W | ☑ |
| Tuning Range | 680 nm to 1080 nm | ☑ |
| Power Specifications | 650 mW @ 680 nm | ☑ |
| | 1.6 W @ 700 nm | ☑ |
| | 3.5 W @ 800 nm | ☑ |
| | 1.6 W @ 920 nm | ☑ |
| | 550 mW @ 1020 nm | ☑ |
| | 200 mW @ 1080 nm | ☑ |
| Tuning Speed | >40 nm $s^{-1}$ | ☑ |
| Pulse Width[1, 2] | 140 ± 20 fs | ☑ |
| Output Power Stability[3] | <±0.5% | ☑ |
| Spatial Mode | $TEM_{00}$ ($M^2$ <1.1[1]) | ☑ |
| Beam Diameter[1, 4] | 1.2 ± 0.2 mm | ☑ |
| Beam Ellipticity[1, 5] | 0.9 to 1.1 | ☑ |
| Astigmatism | <10% | ☑ |
| Repetition Rate | 80 MHz, nominal | ☑ |

Signed: Leonard Pacitti Date: 04/09/2014

[1] Specified at peak of tuning curve.
[2] Based on sech² deconvolution of 0.65 times autocorrelation width.
[3] Power drift in any 2 hour period with less than ±1°C temperature change after a 1 hour warm up.
[4] $1/e^2$ at exit port.
[5] Ratio of major to minor $1/e^2$ beam diameter at exit port.