



| DBB                    |                              |
|------------------------|------------------------------|
| Diagnostic breadboard: | DBID 0308, lock mode (4)     |
| Selected laser beam:   | 35W laser (DBB shutter open) |

| POWER NOISE                |   |
|----------------------------|---|
| Measurement:               | 60 s = 1.0 min, 26. Jun 2012 17:47 PDT      |
| Average DC signal:         | 9.481 V                                     |
| DC signal range:           | 9.466 V . . 9.493 V (65536 Hz samplingrate) |
| Minimum power:             | -0.15% ( [min-avg]/avg )                    |
| Relative peak-to-peak:     | 0.28% ( [max-min]/avg )                     |
| Photo current:             | 47 mA                                       |
| Relative shot noise level: | 2.60e-09 Hz <sup>-1/2</sup>                 |

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|                       |   |
|-----------------------|---|
| Measurement duration: | 60 s = 1.0 min  |
| Measurement start:    | 26. Jun 2012 17:47 PDT (27. Jun 2012 00:47 UTC, 1024793252 GPS)   |
| NDS:                  | h1nds1:8088 (v12r0)   |
| User:                 | psl@operator2   |
| Channels:             | H1:PSL-DBB_RPD_DC_OUT 65536 Hz,<br>H1:PSL-DBB_RPD_REL_PWR_OUT 65536 Hz,<br>H1:PSL-DBB_SHUTTER 16 Hz,<br>H1:PSL-DBB_DBID 16 Hz,<br>H1:PSL-DBB_MON_SHUTTER_CLOSED 16 Hz,<br>H1:PSL-DBB_MODE_NUM 16 Hz |
| Raw data:             | <a href="#">rawdata.zip</a> (attached to this .pdf file, use Adobe Reader)  |
| Calibration:          | default.cali (embedded), 01. Jan 1970 00:00 UTC   |
| Report source files:  | <a href="#">report.zip</a> (attached to this .pdf file, use Adobe Reader)   |
| Program:              | dbb_rpn.py v0.6, Patrick Kwee, patrick.kwee@aei.mpg.de  |

I N F O

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| Measurement method: The power fluctuations of the beam were measured with a photodetector on the DBB.<br>Detailed information about the measurement method and instructions for performing this measurement are available in<br>Kwee et al., Appl. Opt., 47(32):6022–6032, 2008; LIGO-T0900133; LIGO-T0900579. |
| <i>no comment</i>  |