

OE4000

HI-Q® Multi-Functional Laser Noise Analyzer

The table below shows a range of possible performance values at a variety of wavelength bands for the OE4000 Phase Noise Analyzer. Depending on the configuration, a single device may not be able to meet all displayed performance specs at the same time. Please inquire if you need a different wavelength band or sensitivity.

Wavelength Band (nm)	Instantaneous Linewidth (Hz)	Extended Linewidth	Phase Noise Floor (dBc/Hz)	RIN Floor (dB/Hz)
420 – 510	50	3 kHz – 100 MHz	-140	-141
454 – 464*	50	4.6 kHz – 100 MHz	-140	-146
505 – 515	35	2.5 kHz – 100 MHz	-142	-146
575 – 710	20	1 kHz – 100 MHz	-148	-147
600 – 710	18	950 Hz – 100 MHz	-149	-148
740 – 935	10	800 Hz – 60 MHz	-153	-152
930 – 965	5	600 Hz – 45 MHz	-153	-152
965 – 1070	3	500 Hz – 30 MHz	-154	-153
1000 – 1100	2	400 Hz – 30 MHz	-155	-153
1170 – 1260	2	350 Hz – 30 MHz	-156	-154
1260 – 1360 (O-Band)	1	300 Hz – 30 MHz	-157	-155
1360 – 1460 (E-Band)	1	200 Hz – 30 MHz	-158	-156
1460 – 1530 (S-Band)	2	400 Hz – 30 MHz	-154	-153
1530 – 1565. (C-Band)	0.5	3 Hz – 10 MHz	-160	-158
1565 – 1625 (L-Band)	1	300 Hz – 30 MHz	-157	-155

* at +15 dBm