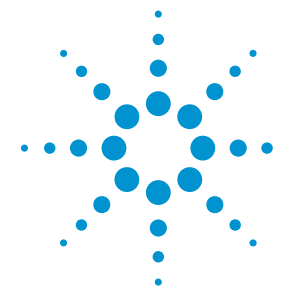


Agilent 5517A, 5517B, 5517C, 5517CL, 5517D, 5517DL, 5517EL, 5517FL, 5517GL Laser Heads for Transducer Systems



The Agilent 5517 series are Class II helium-neon laser sources that provide highly stable and accurate 633 nm wavelength light for precision dual-frequency interferometry. A variety of Zeeman split frequencies, beam size, power levels, and special options are available to meet your systems requirements. Agilent lasers are known for their reliability, with a mean time between failures (MTBF) of greater than 50,000 hours typical.



5517C Laser Head

Key features

- 2 ppb vacuum wavelength stability (1 hour); 20 ppb (lifetime).
- ± 0.1 ppm wavelength accuracy standard; ± 0.02 ppm with optional calibration.
- MTBF > 50,000 hours (typical).



Quick Fact Sheet

Agilent 5517A, 5517B, 5517C, 5517CL, 5517D, 5517DL, 5517EL, 5517FL, 5517GL Laser Heads for Transducer Systems

Model number ³	Maximum linear velocity (mm/s) ¹			Reference frequency (MHz)	Min output power (μW)	Warm-up time (min)	Available laser beam diameter (mm)
	10897D	10898D N1231A/B	N1225A				
5517A		411	316	1.5 to 2.0	> 180	< 10	6
5517B		538	443	1.9 to 2.4	> 120	90	6
5517C		696	601	2.4 to 3.0	> 180	90	3, 6, 9
5517CL				2.4 to 3.0	> 180	45†	6
5517D		1012	918	3.4 to 4.0	> 180	90	6, 9
5517DL		1329*	1234	> = 4.4	> 180	45†	6, 9
5517EL	1740*	1772*	1677	> = 5.8	> 65	45†	6
5517FL	1361*	2152*	2057	> = 7.0	> 65	45†	6, 9
5517GL ²	1297*	2215*	2120	> = 7.2	> 168	45†	9

1. Values are for worst case direction of travel (higher velocity generally possible in opposite direction), and for using linear (single pass, $\lambda/2$ optical resolution) optics.

2. Must be ordered with option 009.

3. Each laser head requires power supply. Use either an Agilent 10884B supply or equivalent to provide 15 V power to the laser head and receivers.

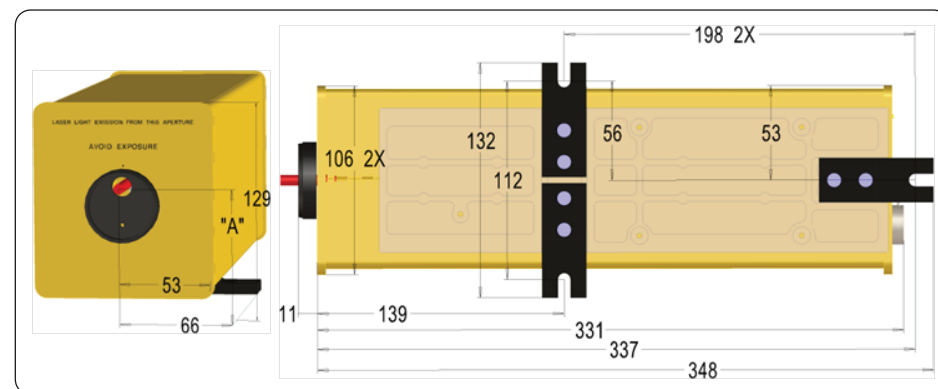
* Requires use of E1709A receiver to obtain listed velocity.

† Can be achieved if fan is connected to the vent body.

Option keys

Options	Description
003	3 mm output beam diameter
006	6 mm output beam diameter
009	9 mm output beam diameter

For more details on Agilent interferometry systems, components and ordering information please visit www.agilent.com/find/lasers



5517x/xL (except 5517A) Laser heads outside dimensions (5517xL cooling duct and perforations not shown). Beam height "A" is 79.5 mm for 5517x heads and 80.8 mm for 5517xL heads.

