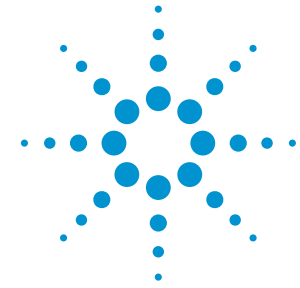


Agilent 5517B, 5517BL, 5517C, 5517CL, 5517D, 5517DL, 5517EL, 5517FL, 5517GL Laser Heads for Transducer Systems



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

Product options

Laser model	Split frequency (MHz)	Velocity limit (mm/s) ¹	Standard configuration	Manual provided?	Partial options list					
					003	006	009	A6J	0BN	141
5517B	1.9 to 2.4	500	6 mm beam	Yes				X		X
5517BL	1.9 to 2.4	500	6 mm beam	Yes				X		
5517C	2.4 to 3.0	711	6 mm beam	Yes	X	X	X	X	X	
5517CL	2.4 to 3.0	711	6 mm beam	Yes	X	X	X	X	X	
5517D	3.4 to 4.0	1000	6 mm beam	Yes				X		
5517DL	≥ 4.4	1200	6 mm beam	Yes		X	X			
5517EL	≥ 5.8	1550	6 mm beam	Yes		X	X	X		
5517FL	≥ 7.0	2000	6 mm beam	Yes		X	X	X		
5517GL ²	≥ 7.2	2100	9 mm beam	Yes			X	X		

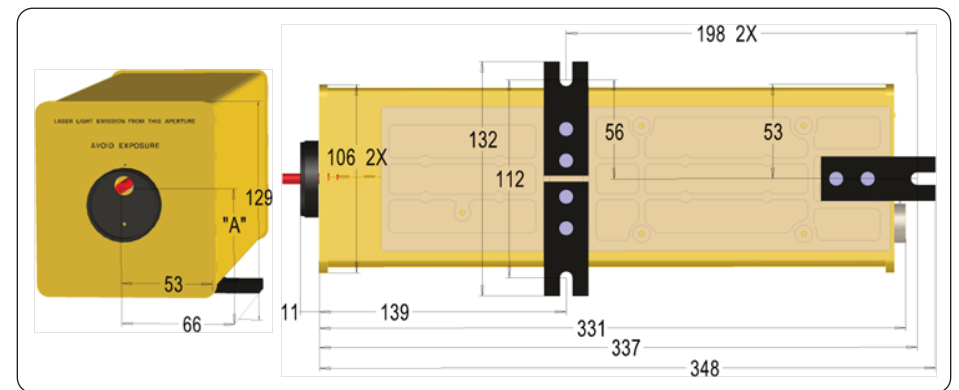
1. Shown for worst case direction of motion (motion causing measure frequency to decrease), using linear optics ($\lambda/2$ optical resolution) and typical electronics – consult electronics' specs for actual velocity limits with each laser head model.

2. Must order with option 009.

Option keys

Options	Description
003	3 mm output beam diameter
006	6 mm output beam diameter
009	9 mm output beam diameter
A6J	ANSI/NCSL Z540-1-1994 compliant calibration
0BN	Include extra operating manual
141	Include Japanese manual

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.

