

Genesis Taipan 607/639 (OEM)

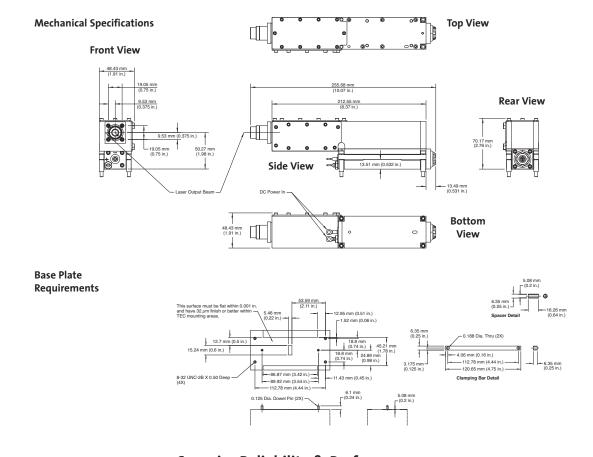
High-Power Optically Pumped Semiconductor Powered CW Laser



Features

- OPSL reliability
- Compact, efficient design
- Modulation rate to >50 kHz
- Ability to deliver high output powers at unique wavelengths
 1.25W at 607 nm
 Up to 2.5W at 639 nm

- Low heat load for ease of integration



Superior Reliability & Performance

Genesis™ Taipan™ 607/639 (OEM)

High-Power Optically Pumped Semiconductor Powered CW Laser

Optical Specifications ¹	Genesis	Taipan 607	Taipan 639	
	Wavelength (nm)	607 ±1	639 ±1	
	Output Power (mW)	1250	1500, 2000, 2500	
	Bandwidth (nm)	<	<0.5	
	Collimated Version Beam Waist Diameter ² (mm)(FW, 1/e ²) 0.8		2.8	
	Beam Divergence ² (mrad)(FW, 1/e ²) Beam Waist Location ^{2,3} (m)	1.4 ±0.25		
	M ²		J.2)	
	 Horizontal Vertical	<1.5 <1.5 <10		
	Pointing Stability ⁴ (µrad/°C)			
	Noise			
	RMS (%)(10 Hz to 10 MHz) ⁷ RMS (%)(10 Hz to 100 kHz) ⁷	<5 <1		
	Polarization Ratio	Vertical, >100:1		
	Direct Modulation	Available		
Utility and Environmental Requirements	Operating Diode Current (A)	<27	<27, <30, <33	
	Maximum Diode Current (A)	<32	<32, <35, <38	
	Diode Voltage (V)	1.5 to 2.2		
	Cooling Requirements ⁶	Active cooling required		
	Case Temperature (°C)	20 ±2		
	Humidity	Non-condensing		
	Dimensions (L x W x H) Laser Head ⁷	256 x 49 x 71 mm (10.07 x 1.93 x 2.76 in.)		
	Weight Laser Head (g)		0 ±10	

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976

Coherent offers a limited warranty for all Genesis Taipan lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

U.S. Patent No. 5,991,318 U.S. Patent No. 6,167,068 U.S. Patent No. 6,285,702 U.S. Patent No. 6,438,153 U.S. Patent No. 6,683,901 U.S. Patent No. 7,180,928 Printed in the U.S.A. MC-xxx-11-0M0212 Copyright ©2012 Coherent, Inc.

Coherent, Inc. Benelux +31 (30) 280 6060 5100 Patrick Henry Drive +86 (10) 8215 3600 China Santa Clara, CA 95054 France +33 (0)1 8038 1000 (800) 527-3786 phone Germany +49 (6071) 968 333 (408) 764-4983 Italy +39 (02) 31 03 951 fax (408) 764-4646 Japan +81 (3) 5635 8700 tech.sales@Coherent.com e-mail Korea +82 (2) 460 7900 UK +44 (1353) 658 833



² Typical value.

Measured from the output face, negative value corresponds to a location inside the head; positive outside.
 Measured at the output window: tolerance relative to the nominal center of the output window and perpendicular to the mounting plane.

 $^{^{5}\,}$ Air cooling available with appropriate heat sink and fans.

⁶ Includes collimator.

⁷ At rated power.