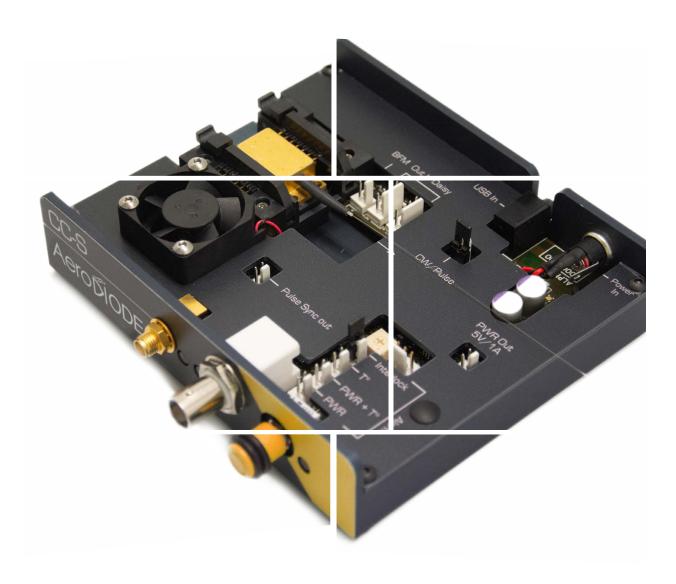
1075nm Laser diode & Turn-key solutions



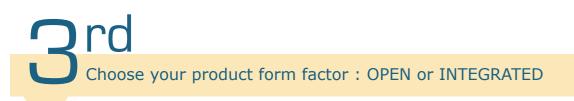
Aero

www.aerodiode.com

1075nm laser diode Choose your own standard or DFB laser diode + turn-key Driver solution

Standard or DFB laser diodes are offered as stock items or associated with a CW or pulsed Turn-Key Laser Diode Driver.

		ır laser diode	e :		Contraction of the second seco		
Diode type	Techno- logy	Power (CW)	Power (Pulse)	Nominal Levels (typ.)	Wavelength (nm)	Fiber	Package
1	Butterfly singlemode Fabry-Pérot	400mW	600mW	800mA - 1.8V	1075 ± 4nm	HI1060	14 pin Butterfly
2	Butterfly singlemode DFB	70mW	105mW	220mA - 1.7V	1075 ± 1nm	(if option PM: PM980)	type 1



OPEN FRAME VERSIONS:



> Open driver for CW, std and HP electronics Boards



> Open driver for HPP (High Pulse Performance) electronic Board



> Open driver for Shaper electronics Board

Choose your Driver performance :

	Laser Diode Model	CW	Std (from 1ns to CW)	HP (High Power)	HPP (High Pulse Performance)	SHAPER (User Design ns Pulse Shape)		
	1 - FP	400mW						
Output Power - CW regime (typ)	2 - DFB		No					
Output power - Pulse regime (typ)	1 - FP	600mW		600mW				
Output power - Paise regime (typ)	2 - DFB	NU	105mW					
User design Pulse shape		No	No (On-Off Driver only)			Yes		
Laser diode T° range	Any	15 - 50 °C						
Pulse duration (Ext pulse trigger)		CW only	0.5 ns - CW		0.5 ns - 8 µs			
Pulse duration (Internal pulse generator)			0.5 ns - 500 ns					
Typ rise/fall time; Min Pulse duration			3 (ns/A); 1.5 ns		< 1 (ns/A) ; 1.5 ns			
Internal rep rate adjustment			1Hz - 4MHz	1Hz - 10MHz (250MHz optional)	1Hz - 250MHz	1Hz - 20MHz		
Temporal Jitter			< 25 ps		< 8 ps	<2 ns		
Adj. CW offset in pulse regime			No Y		es	No		
Interface/GUI/libraries		U	JSB - Windows 7/10 - DLLs - Hexa/Linux - Labview - Python		- Python			

INTEGRATED VERSIONS :



and HP electronics BoardInte



CCSI-HPP

Board



LASER DRIVER VERSION :



> Open driver for HPP (High Pulse Performance) electronic



Integrated version for Shaper electronics Board

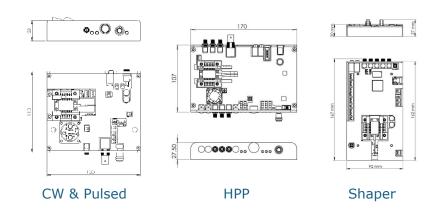
www.aerodiode.com

Technical Specifications

GUI examples

🞑 CCS 0 A0 - Line 1 - Aerodiode Control Software × e Config Info Themes Text Size Configure Maximum Levels First 0,000 A 🗘 Max Peak Current 0,000 A Control Mode Selector Hw Sw Off Laser Activation Int Control Mode Pulse Current Source Ext Trigger/Pulse Dur. Adj. Int / Int Ext / Int Ext / Ext / Ext Pulse Settings Offset Current Peak Current 0,00 mA Pulse width Temperature

Mechanical examples

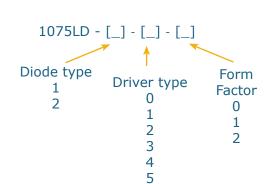


Configure Maximi	um Levels Fin	st						
Max Average Current	Maximur	Maximum CW Current 0 mA 🗘			Max Peak Current 0 mA		0 mA	
Control							Config	jurations
Laser Activation	Off	Off Operating Mode ACC			APC	Input	Modulatio	
Trigger/Pulse Dur. Adj.	Int / Int Ext / In	t Ext / Ext					LIV	Photodiod
Settings								
CW Current	0,000 mA 🗘	Pulse Pe	Pulse Peak Current 0,000 mA 🗘 Temperature			Temperature	0,0 °C	
Frequency	1,0 Hz 🗘	Pulse Wi	dth	10 ps	\$			
Measurements								
Diode CW Current 1,8 mA		Diode Av	Diode Avg. Current 447,064 mA			Diode Voltage		0,000 V
BFM Current 0,000 µA		PD_EXT	PD_EXT Current 0,000 µA			Diode INT Temp.		1,750 °C
			More Measu	urements				
Alarms								
		BNC Interlock						

Ordering information :

Classification :

Name	1075nm LD :				
Diode type	1 : Standard Fabry-Pérot (400mW) 2 : DFB (70mW)				
Driver electronics	O : No driver (laser diode alone) 1 : CW driver (for CW laser diode emission only) 2 : Std - Pulse and CW Driver 3 : HP (High Power) 4 : HPP (High Pulse Performance) 5 : SHAPER				
Form Factor	0 : No driver (laser diode alone) 1 : Open 2 : Integrated				







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