CTFL-TERA-HP

CW THULIUM FIBER LASER WITH TERAHERTZ LINEWIDTH HIGH POWER

convergent BY LUMIBIRD

Optical Specifications

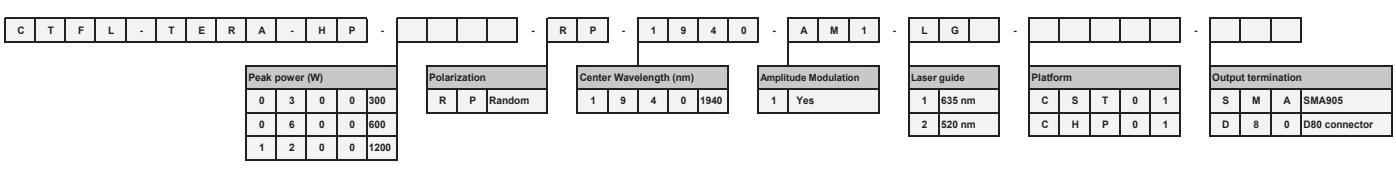
@ 25 °C

		CTFL-TERA-HP		
		CST200	CST200+	CSTHP
Mode of operation		CW or QCW modulated		
Operating wavelength in vacuum (nm)		1940 typ.		
Average output power at 1940 nm (W)	CW	200		250
	QCW	30	60	120
Nominal peak power (W)		≤ 300	≤ 600	≤ 1200
Pulse energy (J)		4	6.5	13
Linewidth at FWHM (nm)		4 typ.		
Modulation frequency (Hz)		1 to 2500		
Pulse width (ms)		0.1 to 3	0.1 to 6.5	0.2 to 12
Polarization		Random (RP)		
Output power stability over 1 hr at contant temperature after warm-up time (%rms)		+/- 1%		
Output power tunability (%)		10 - 100		
Laser guide (LG option)		635 nm, < 2 mW		635 nm or 520 nm, < 3 mW
Output fiber type		25 µm core (N.A 0.09)		100 µm core (N.A 0.22)
Output fiber length[1] (m)		1.5 +/- 10 %		
Output termination		SMA905		SMA905 or D80 connector
Beam parameter at 1/e² (mm x mrad)		0.967		≤ 3.5
Power consumption (W), in CW mode		< 950		
Associated platform		CST01		CHP01

Platform Specifications

		Platform type	
		CST01	CHP01
Voltage (VDC)		78 + 24	
Laser cooling type		Glycol mix (35%)	
Laser cooling characteristics	Cooling cap (W)	800	
	Pressure (Bar)	< 6	
	Flow (L/min)	> 4	
	Temperature (°C)	22 +/- 2	
Cooling interface		10 mm OD quick disconnect fitting (x2)	
Dimensions W x H x L (mm)		490 x 127 x 633	440 x 85 x 773
Weight (kg), typical		17	21
Operating case temperature (°C)		5 to 50	15 to 30
Relative humidity, non condensing (%)		< 95	
Safety		PLe	
Protection degree (IEC60529)		IP54 (NEMA13 equivalent)	

[1] Depending on the model, other fiber length available upon special request



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LUMIBIRD MORE THAN LASERS