CTFL-TERA-HP

CW THULIUM FIBER LASER WITH TERAHERTZ LINEWIDTH HIGH POWER

convergent BY LUMIBIRD

Optical Specifications @ 25 °C		CTFL-TERA-HP			
		CST25	CST200	CST200+	CSTHP
Mode of operation		CW or QCW modulated			
Operating wavelength in vacuum (nm)		1927 typ.	1940 typ.		
Average output power (W)	CW	25	200		250[1]
	QCW	25	30	60	120
Nominal peak power (W)		≤ 60	≤ 300	≤ 600	≤ 1200
Pulse energy (J)		≤ 0.6	≤ 3	≤ 6	≤ 14
Linewidth at FWHM (nm)		4 typ.			
Modulation frequency (Hz)		1 to 2500			
Pulse width (ms)		0.1 to 10			0.1 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)			50 µm core (N.A 0.22)
Output fiber length[2] (m)		1.5 +/- 10 %			
Output termination		SMA905			SMA905[3] or D80 connector
Power consumption (W), in CW mode		< 135	< 950		< 1200
Associated platform		CST03	CST01		CHP01, CHP02

[1] Operating time limited to 10 min with air-cooled CHP02 platform.

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

[3] Only for operating in QCW mode (< 120 W).

Platform Specifications		Platform type			
		CST01	CHP01	CST03	CHP02
Voltage (VDC)		78 + 24		48 + 24	78 + 24
Laser cooling type		Glycol mix (35%)		Air cooled, integrated fans	
Laser cooling characteristics	Cooling cap (W)	800		-	
	Pressure (Bar)	< 6		-	
	Flow (L/min)	> 4		-	
	Temperature (°C)	22 +/- 2		-	
Water 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	211 x 114 x 278	285 x 550 x 440
Weight (kg), typical		21	26	5	55
Operating ambient temperature (°C)		5 to 50	15 to 30		
Relative humidity, non condensing (%)		< 95			

C T F L - T E R A - H P - [ ] [ ] [ ] [ ] - R P - 1 9 [ ] [ ] - A M 1 - L G [ ] - [ ] [ ] [ ] [ ] [ ] - [ ] [ ] [ ]

Peak power (W)	
0 0 6 0	60
0 3 0 0	300
0 6 0 0	600
1 2 0 0	1200

Polarization	
R P	Random

Center Wavelength (nm)	
1 9 2 7	1927
1 9 4 0	1940

Amplitude Modulation	
1	Yes

Laser guide	
1	635 nm
2	520 nm

Platform	
C S T 0 1	
C S T 0 3	
C H P 0 1	
C H P 0 2	

Output termination	
S M A	SMA905
D 8 0	D80 connector

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