

High Power, Narrow Spectral Emission Line Width 1550nm Fiber Laser



High Power 1550nm Fiber Laser with up to 10 Watts of CW Output Power and 10 kW of Peak Pulsed Mode Output Power

Wavelength: 1550.00 nm (+/-1 nm)

CW Output Power: > 10 Watts (+40 dBm)

Peak Pulse Power (typical): 10 kW (@ 10nsec
pulse width & 100 kHz rep rate)

Pulse Width Range: 5 nsec ~ 10 nsec
(requires external RF input generator)

Narrow Laser Linewidth: < 0.2 nm)

Advanced Performance Semiconductor Lasers and Control Instruments

Parameter	Unit	Specification	Remarks
Product			
Model Name	-	Nano-second pulsed Fiber Laser	-
Model No.	-	FL-1550NM-10 / ANSFL-10-1000-40-R-CL	-
Optical			
Operating Wavelength	nm	1550 +/-1	-
Saturated Output Power	dBm	Min. 40	-
Pulse Signal Width Range	ns	5 to 10	External RF input
Pulse Repetition Rate Range	kHz	100 to 10000	External RF input
Pulse peak power (No SBS)	kW	Min. 7, Typ. 10	@ 10ns pulse width and 100kHz repetition rate
Linewidth	nm	Typ. 0.2, Max. 0.5	
Input & Output Isolation	dB	Min. 30	-
Polarization Dependent Gain	dB	Typ. 0.3, Max. 0.5	-
Polarization Mode Dispersion	ps	Typ. 0.3, Max. 0.5	-
Environment			
Operation Temperature	°C	0 to +40	-
Storage Temperature	°C	-10 to +70	-
Dimensions	mm	485 (W) x 360(D) x 90(H)	2U"14 Rackmount
Power Supply	VAC	90 – 240 (47 – 63 Hz)	-
Interface			
Remote Control Port	-	RS232	-
Control	-	Keylock, Interlock, Pump Laser Current	-
Protection	-	Pump Laser (TEC) Overheat	-
Control Mode	-	ACC	-
Optical Power Monitoring	-	Optical Output Power, Pump Laser Current	-
Optical Connector	-	Collimator	TBC
Optical Fiber	-	LMA 25/300 GDF	-
Packing Information			
Carton Size:	mm	560(W) x 660(D) x 250(H)	-
Weight:	kg	12	-