



SPECIFICATIONS	Operating Wavelength	1520 nm to 1610 nm
	Laser Source	Internal DFB laser, 1550nm+/-10nm
	Laser Power Level	20 mW, 30 mW, 40 mW, 50 mW
	RF Return Loss	>15 dB @ 10 GHz; >10 dB @ 30 GHz
GENERAL	Operating Frequency Range	DC to 40 GHz
	Input RF Voltage	27 dBm max.
	Optical Output Level	6.5 dBm typ. w/ 20 mW DFB
	S21 Bandwidth	3 dB, 28 GHz typ.
	Modulator Bias Mode	4 Automatic bias control modes, selectable by software
	Extinction Ratio	25 dB typ., >30 dB (HE version)
	Modulator Voltage	6.4 V typ. @ 10 GHz; 8.3 V typ. @ 30 kHz; 2.5 V typ. @ 10 GHz, 4.3 V typ. @ 30 GHz (LD version)
	Operating Temperature (standard) Storage Temperature	-30°C to +60°C -60°C to +90°C
MECHANICAL	Power Supply Requirements	+/- 5 V, 1 A typ.
	Optical Connectors	FC/APC
	Fiber Type	SMF-28 output, PANDA output (PM version)
	RF Input Connector	GPPO or V connector
	Power Connector	4 Pin Molex
	Remote Control	USB 2.0 software included
	Alarm	LED bias mode status
	Dimensions	220mm x 119mm x 27mm

ANALOG LINK PERFORMANCE	IIP3 @ 7 GHz29 dBm typ.; 25 dBm typ. (LD version)1 dB Compression Point @ 10 GHz16 dBm typ.; 8 dBm typ. (LD version)	
BIAS CONTROL MODE		Set to quadrature point of positive slope for linear analog modulation Set to quadrature point of negative slope for linear analog modulation Set to min. point of operation for pulse generation of digital modulation Set to max. point of operation for pulse generation of digital modulation
/		





## TYPICAL S21 AND S11 BANDWIDTH

3.00

0.00

-3.00

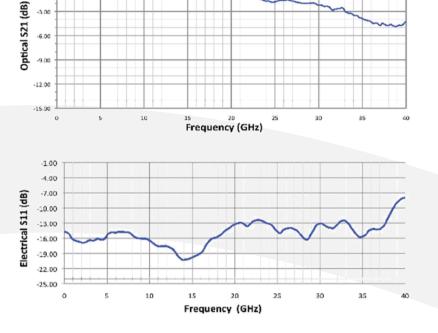
#### **OPTIONS**

LTA-40-XX

PM: Polarization Maintaining

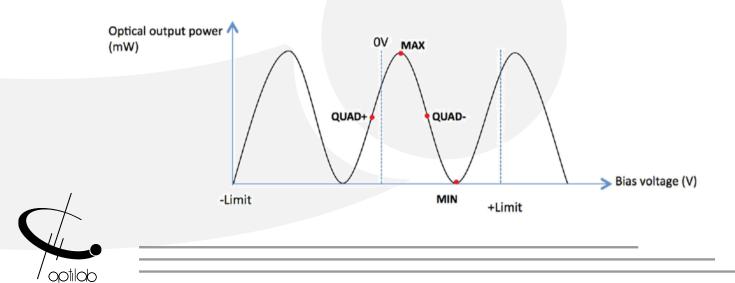
LD: Low Drive Voltage XX:

HE: High Extinction Ratio



## BIAS SETTING MODES FOR LTA

Based on sophisticated phase measurement of this small dither signal, LTA-40 provides four selectable operating modes: quadrature (Quad +), inverted quadrature (Quad -), minimum (Min), or maximum (Max) points.



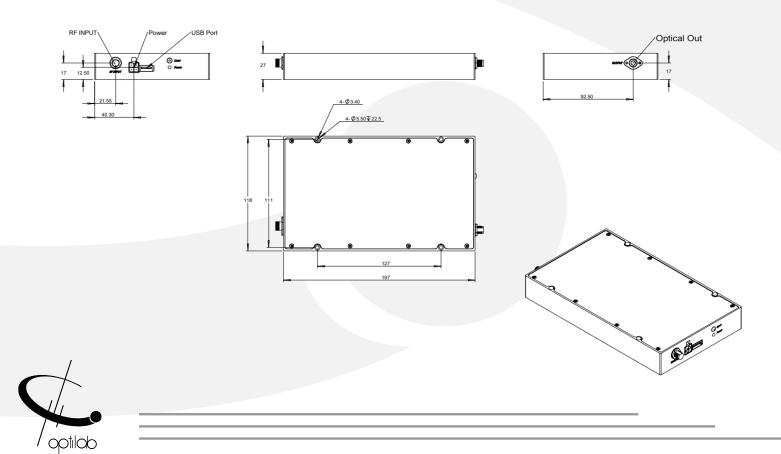


## DETAILED LAYOUT



No.	Feature
1	Optical Output Port
2	RF Input Port
3	LED Indicators
4	DC Connection Port
5	USB Control and Monitor Port

## MECHANICAL DRAWING





## PRECISION POWER SUPPLY FOR LTA (OPTIONAL)



General Specifications		
Parameters	Specifications	
Input AC Voltage (VAC)	85-240	
Input AC Current (A)	≤0.5	
Input AC Frequency (HZ)	50-60	
Transfer Efficiency	≤85%	
DC Output Current (A)	4 A max.	
DC Output Voltage (V)	±5 V	
DC Voltage Ripple	≤2%	
DC Connectors	Molex 4 Pin	
Communication Connectors	DB-9 and USB 2.0	
Dimensions (mm)	153x115x33	

# TYPICAL S21 AND S11 BANDWIDTH FOR LD VERSION

