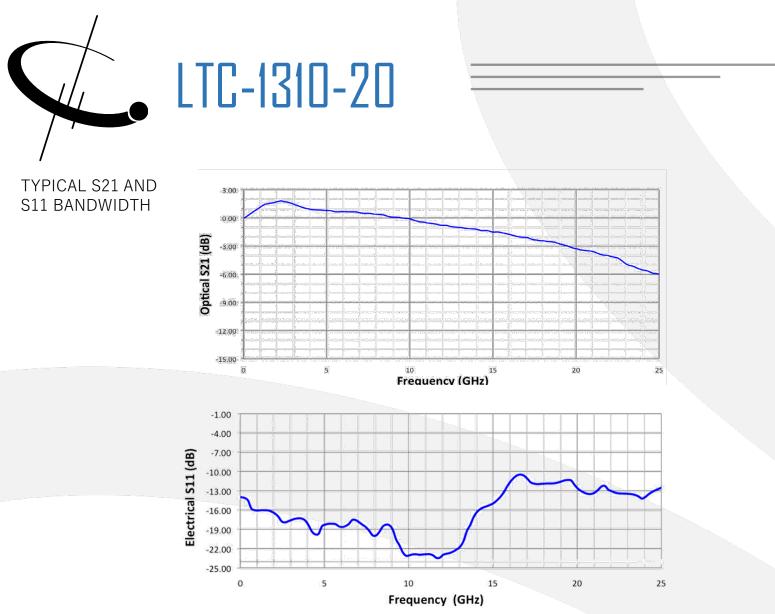


# LTC-1310-20

SPECIFICATIONS	Operating Wavelengt	h 1270 nm to 1330 nm	
GENERAL	Laser Source	1310 nm Standard, 1270 nm, 1290 nm, 1330 nm Available;	
	Laser Power Level	40 mW, 60 mW, 80 mW, 100mW	
	RF Return Loss	> 15 dB @ 10 GHz; > 10 dB @ 20 GHz	
	Impedance	50 Ω	
	Operating Frequency	Range ID MHz to 20 GHz	
	Input RF Voltage	27 dBm max.	
	Optical Output Level	7 dBm, 9 dBm, 10 dBm Available	
	S21 Bandwidth	3 dB, 18 GHz typ.	
	Modulator Bias Mode	4 Automatic Bias Control Modes, Selectable by Software	
	Extinction Ratio	25 dB typ.; > 30 dB (HE Versions)	
	Modulator Voltage V <sub>F</sub>	4 V typ. @ 100 KHz; 6 V typ. @ 10 GHz	
MECHANICAL	Operating Temperatu	re (Standard) -30 °C to +60 °C	
	Operating Temperatu Version)	re (TQ -55 °C to +75 °C	
	Storage Temperature	-60 °C to +90 °C	
	Power Supply Require	ements AC Power Cord	
	Optical Connector	FC/APC	
	Fiber Type	SMF-28 Output; PANDA Output (PM Version)	
	Alignment	Slow Axis	
	RF Input Connector	K Connector	
	Power Connector	4 Pin Molex	
	Remote Control	USB 2.0 Software Included	
	Alarm	LED Bias Mode Status	
	Dimensions	206 mm x 102.4 mm x 31.5 mm	
BIAS CONTROL MODE	Mode	Operation Conditions	
	Q+ Set to	Set to quadrature point of positive slope for linear analog modulation	
	Q-Set to	Set to quadrature point of negative slope for linear analog modulation	
	Min. Set to	min. point of operation for pulse generation or digital modulation	
	Max. Set to	max. point of operation for pulse generation or digital modulation	

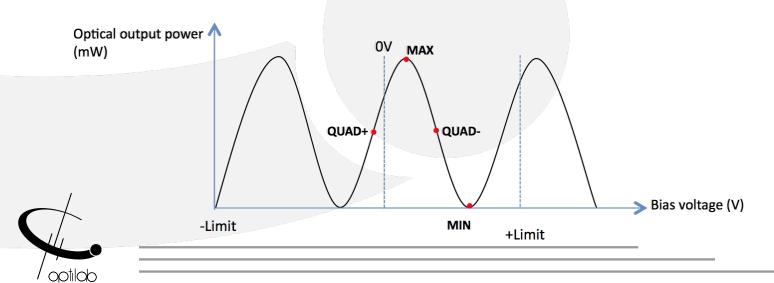


Product specifications and description are subject to change without notice. © 2024 Optilab, LTC-1310-20. May 2024 Rev. 1.2



### BIAS SETTING MODES FOR LTB

Based on sophisticated phase measurement of this small dither signal, LTC-1310-20 provides four selectable operating modes: quadrature (Quad +), inverted quadrature (Quad -), minimum (Min), or maximum (Max) points.





## ORDERING OPTIONS

#### LTC-XXXX-20-YY-ZZ

- XXXX Wavelength: 1270 nm, 1290 nm, 1310 nm, 1330 nm
- YY PM: Polarization Maintaining HE: High Extinction Ratio
- ZZ DC: DC +/- 5V Power Supply (Option 1) AC: AC 100/240 VAC (Option 2)
  - Option 1 : DC +/- 5V



Option 2: 100/240 VAC



