DML Series Directly Modulated Optical Sources

Light Sources

This series uses directly modulated distributed feedback lasers to carry analog RF signals over fiber. The wavelength configurations have separate electrical and optical specifications.



Technical specifications

1310 nm module

Center wavelength (nm)	1310
Optical output power (mW)	8 (Typical)
3 dB Linewidth (MHz)	1
Side-mode suppression ratio (dB)	30 to 45
Relative intensity noise (dB/Hz)	-145
Polarization extinction ratio (dB)	17 to 19
Modulation bandwidth (GHz)	≥10
Electrical return loss / Matched impedance	≤-10 dB / 50Ω

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Technical specifications

1550 nm module

Laser type	DFB
Operating wavelength (nm)	1530 to 1570 (Optional DWDM)
Optical output power (mW)	10
Equivalent noise intensity (dB/Hz)	-145
Side-mode suppression ratio / Optical isolation (dB)	35 to 45 / 30
Operating frequency @-3 dB (GHz)	0.1 to 6 / 0.1 to 10 / 0.1 to 18
RF input range (dBm)	-60 to 20
In-band flatness (dB)	-1.5 to +1.5