



LDM1300: schematics

LDM1300

The LDM1300 module is designed for an interferometric AFM readout, based on an IR laser with 1310 nm wavelength, and an internal InGaAs diode detector.

Laser	LDM1300	
wavelength	1310 nm	
maximum optical power	100 μ W per optical port (total 200 μ W)	
minimum optical power	33 μ W per optical port	
Detector		
type	InGaAs-diode	
gain	1E6 V/A (others on request)	
quantum efficiency	0.8 A/W @ 1310 nm	
detector bandwidth	200 / 500 kHz (switchable)	
detector output	0 .. +10V	
typical noise	< 1 mV	
Dimensions		
type	module for ACC chassis, 19" rack	
module size	3 rack units, 14 horizontal pitches (13.5 x 7.5 x 34.5 cm ³)	
weight	1 kg	
Electrical Supply		
voltages supplied by ACC chassis	GND, +5V, -15V, +15V	
ACC chassis input voltage	100/115/230V (switchable), 50..60 Hz	
power consumption	max. 10W	
Interfaces		
detector output	BNC, 50 Ohm	
optical ports	2x FC/APC connectors	
connection to optional DAQ card	25 pin D-Sub connector on ACC chassis	
Models and Part Numbers		
laser detector module	LDM1300	(art. no. 1001591)
19" chassis with power supply	ACC chassis	(art. no. 1002073)