SemiNex LASER DIODES

4 Pin Laser Module

	Symbol	4PN-116	4PN-117	4PN-101	4PN-134	4PN-104	4PN-108	Units
Optical								
Wavelength	λ_c	1320	1375	1460	1470	1480	1550	nm (±20)
Output Power (CW)	P_o	4.50	4.30	4.00	5.00	3.80	3.30	watts (±10%)
Spectral Width	$\delta\lambda$	10	10	10	15	10	10	nm 3dB
Slope Efficiency	η_s	0.44	0.36	0.38	0	0.35	0.3	W/A
Optical Fiber Core Dia.	η_s	105	105	105	200	105	105	µm
Optical Fiber NA		0.22	0.22	0.22	0.22	0.22	0.22	
Electrical								
Power Conversion Eff.	η	20.00	22.00	21.00	21.00	19.00	16.00	%
Threshold Current	I_{th}	0.5	0.5	0.5	0.5	0.5	0.5	A
Operating Current	I_{op}	13	12	12	17	12	12	A
Operating Voltage	V_{op}	1.7	1.6	1.6	1.6	1.7	1.7	V
Lead Soldering Temp.	°C	250	250	250	250	250	250	°C
Mechanical								
Weight		25	25	25	25	25	25	g
Operating Temp.**		-40 to 60	-40 to 85	-40 to 60	-40 to 60	-40 to 60	-40 to 60	°C
Storage Temp.		-40 to 80	-40 to 85	-40 to 80	-40 to 80	-40 to 80	-40 to 80	°C
Fiber Length		1.5	1.5	1.5	1.5	1.5	1.5	meters
Connector		SMA905 PD Stand.	SMA905 PD Stand.	SMA905 PD Stand.	SMA905 PD Stand.	SMA905 PD Stand.	SMA905 PD Stand.	
Thermistor								
Thermistor Constant	β				3477			β
Thermistor Resistance	R				10000			K ohm

PLEASE NOTE: The 4 Pin laser package is not electrically isolated. The package body is the anode connection. Care should be taken in mounting and installation.
Specified values are rated at a constant heat sink temperature of 20°C.
**Specified operating conditions are based on 20C heat sink temperature. High temperature operation will reduce performance and MTTF.
Unless otherwise indicated all values are nominal.