



1510nm Supervise Transmit Photoelectronic Module

Nanovation's 1510nm Supervise Transmit Photoelectronic Module monitors and controls laser shut-down, end-of-life and laser bias problems in DWDM and other fiber transmission systems. With a built-in 1510nm DFB laser and laser driver, the module meets ITU-T G.692 standards.

Features

- Single power supply
- TTL electrical level interface
- Low power consumption
- Compact package size

Applications

- Monitoring of DWDM systems
- Other fiber transmission systems



Optical Parameters

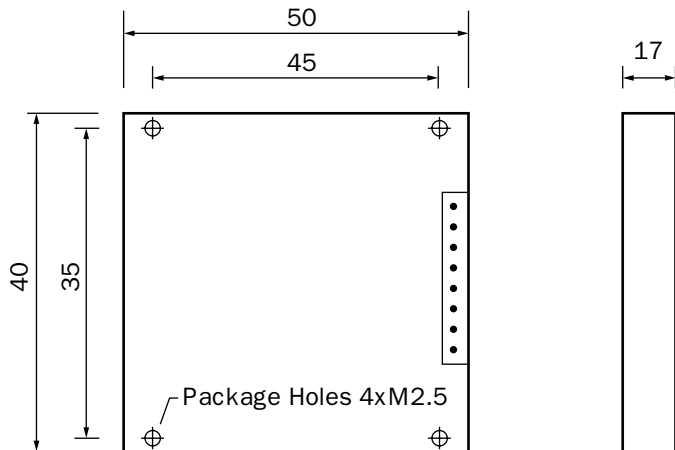
Parameter	Min.	Typ.	Max.
Bit Rate (Mbit/s)		4.096	
Supply Voltage (V)	4.75	5.0	5.25
Supply Current (I _{bias}) (mA)		100	
Input Signals Voltage (V)	High: 2		Low: 0.8
Laser Act-in Voltage (V)	V _{cc} -3		V _{cc}
Laser Shut Down (V)	0		0.8
Laser Bias Monitoring Voltage (mV)		10xI _{bias}	
Average Output Power (25°C)(dBm)	-3		0
Extinction Ratio (dB)		10	
Optical Signal Rise/Fall Time (ns)			5
Central Wavelength (25°C)(nm)		1510	
Range of $\Delta\lambda$ (0 to 65°C)(nm)		± 10	
Spectral Width (-20dB) (nm)			1
Side Mode Suppression Ratio (dB)	30		
Operating Temperature (°C)		0 to 65	
Storage Temperature (°C)		-40 to +85	
Package Dimensions (mm)		50x40x17	



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Mechanical Packaging Diagram (mm)

(All dimensions are in mm; drawings are not to scale.)



Pin Information

Pin	Connection
1	Data
2	GND
3	NC
4	Vcc
5	LD shut down
6	LD failure
7	LD bias current monitor
8	End-of-life indicator

Ordering Information

P E M TX XXX X X X X

Connector Type

- 0: No connector
- 1: FC/UPC (standard)
- 2: FC/APC
- 3: SC/UPC
- 4: SC/APC
- 5: LC
- 6: FC
- 7: SC
- 8: ST
- 9: Other

Pigtail Fiber Length

- 0: Standard length = 1 m (standard)
- 1: User specify

Fiber Type

- 0: Standard single mode (standard)
- 1: User specify

Cooling

- U: Uncooled
- C: Cooled

Wavelength

- 151: 1510nm

To order or for additional information, please contact us at:

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