OS LaserDiode, Inc.

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ISO-9001:2015 Certified

Airpak Transmitter Modules



The **Airpak** series transmitters are full function, high performance digital fiber optic modules. They provide a cost effective interface between standard **ECL** and **PECL** logic families and optical fiber transmission systems. The innovative application of high-quality surface mount technology and a unique integration of optical and electrical components provide performance and quality without the traditional high cost packaging usually associated with optical modules. The superior reliability engineering on which the modules are based ensures performance in all normal environments and operating conditions.

Specifications and Limits Performance @ 25°C

OPTICAL CHARACTERISTICS	Unit	Min.	Тур.	Max.	
Center Wavelength	nm				
TL 2063		1290	-	1330	
TL 2065		1520	-	1570	
Average Output Power (over oper temp range)	dBm				
TL 2063PT-010, TL 2065PT-010		-10	-8	-5	
TL 2063PT-005, TL 2065PT-005		-5	-3	0	
Spectral Width (RMS)	nm	-	2.5	-	
Extinction Ratio	db	10	12	-	
T _x Disable ¹	V	-3.2	-	0	

ELECTRICAL CHARACTERISTICS	Unit	Min.	Тур.	Max.
Supply Voltage (Vcc - Vee)	V	4.75	5	5.5
Supply Current	mA	-	70	130
Input Data Voltage ¹	V			
Low		-	-1.8	-
High		-	-0.8	-
Bias Monitor	V	0.01	-	0.45
Back Facet Monitor	V	0.01	-	0.2

Absolute Maximum Ratings				
	Units	Min.	Тур.	Max.
Supply Voltage	V	-	-	6
Operating Case Temperature	°C	-40	-	85
Storage Temperature	°C	-40	-	85
Lead Soldering Temp/Time	°C / sec	-	-	250/10

NOTES: 1 Measured from V_{cc} with a 50-ohm load to V_{cc} -2 Volts

Outline Drawing



PIN ASSIGNMENTS				
Pin No.	Function			
1, 3, 10, 20	No Connection			
2	Laser Bias Monitor +			
4	Laser Bias Monitor -			
5, 14	Vee			
6, 8, 9 ,12, 18	Vcc			
7	Disable			
11, 13	Ground			
15	Data Not			
16	Data			
17	Back Facet Monitor -			
19	Back Facet Monitor +			

Dimensions: Inches Detailed package drawings available upon request

Part Ordering Information

Part Number	Data Rate (NRZ Mb/s)	Typical Wavelength (nm)	Typical Pavg (dBM)	Operating Temp (°C)
TL2063PT-010FCL	155	1310	-8	-40 to +85
TL2063PT-005FCL	155	1310	-3	-40 to +85
TL2065PT-010FCL	155	1550	-8	-40 to +85
TL2065PT-005FCL	155	1550	-3	-40 to +85

Standard Interface Type 1 meter +/- 0.1 meter length, 9/125/900 um pigtail, FC/PC connector **NOTE:** FC/PC connectors on the fiber pigtail are standard. *Other connector types optional*

Products can be ordered directly from OSI Laser Diode, Inc. or its representatives. For a complete listing of representatives, visit our website at www.laserdiode.com

Personal Hazard and Handling Precautions:

Handle optical fiber with normal care, avoiding stretch, tension, kink or bend abuse. ESD precautions apply. Normal aversion reactions will protect from radiation hazards to the eye associated with devices of this kind. Lasers are Class 1 when operated at rated conditions.

Warranty:

Please refer to your product purchase agreement for complete details or check with your OSI Laser Diode sales representative.

Notice:

OSI Laser Diode, Inc. reserves the right to make changes to the products or information contained herein without notice. No liability is assumed as a result of their use or application.