# FBT4401NH



### Driverless EML Transmitter Module 4 ch, 28 Gbps, LAN-WDM MUX Integrated 100 GE

#### Features

Up to 28Gbps operation (NRZ) 4 Electro-absorption modulator integrated Lasers (EMLs) 4 Monitor PDs are integrated for monitoring optical output power from each EML LAN WDM Optical MUX integrated Single TEC (Thermo Electric Cooler) for all EML temperature control Flexible Printed Circuit boards (FPCs) for electrical IF, and LC receptacle with optical isolator for optical IF

#### **Applications**

CFP2/CFP4 transceiver 100GE LR4 (IEEE 802.3ba) ITUT-G959.1 OTU4 (4L1-9C1F)



#### Modular Block Diagram

1

CIG have the sole right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice, CIG has the final interpretation.



## Driverless EML Transmitter Module 4 ch, 28 Gbps, LAN-WDM MUX Integrated 100 GE

#### **Optical and Electrical Characteristics**

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Laser						
Operational Case Temperature	Тс		0	-	75	deg. C
Peak Wavelength for L0 $^{st 1}$	0		1294.53	1295.56	1296.59	nm
Peak Wavelength for L1 $^{*1}$	1		1299.02	1300.05	1301.09	nm
Peak Wavelength for L2 $^{*1}$	2		1303.54	1304.58	1305.63	nm
Peak Wavelength for L3 $^{st 1}$	3		1308.09	1309.14	1310.19	nm
Laser Operating Current	Іор	-	50	80	100	mA
Output Average Power each lane* <sup>1</sup>	Pf0~3	Tc=-5C~75C	-2.5		+2.9	dBm
Side-mode Suppression Ratio	SSR	-	35		-	dB
Modulator						
Data Input Amplitude	Vin		-		2.0	Vpp
Extinction Ratio	ER	28Gbps Vin=1.5Vpp	7.5		-	dB
Monitor Diode						
Monitor Current	Im	Vpd = 1V	0.1	-	1	mA
Optical Isolation						
Optical Isolation	-	Tc=-5~75C	23	-	-	dB

\*<sup>1</sup>) 28Gbps, PRBS=2<sup>31</sup>-1, If=Iop, Veao as provided in test data.

2

CIG have the sole right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice, CIG has the final interpretation.