100 Gbps LAN-WDM ROSA LR4





Features

- ✓ 4 x 25 Gbps LAN-WDM 100GBASE-LR4 Ethernet
- ✓ Compatible to CFP4/QSFP28 Transceivers Up to 10 km
- ✓ Low Insertion Loss Optical Filter Based DeMUX
- ✓ Integrated Quad PIN-PD and TIA Arrays
- ✓ Electrical Interfaces Via Separate RF and DC FPCB's
- ✓ RSSI (Received Signal Strength Indicator) Current Output
- ✓ Optical Interface with SMF XMD-MSA LC Receptacle
- ✓ Capable of 4 x 28 Gbps Operation
- ✓ Outline Dimension of 24.2 x 6.7 x 5.5 mm³

Applications

- ✓ 100 Gbps LAN-WDM IEEE 802.3ba Ethernet Application
- ✓ 112 Gbps LAN-WDM ITU-T G.959.1 OTU4 application
- ✓ 100 Gbps CFP2/CFP4/QSFP28 LR4 Transceivers
- ✓ Optical Test Equipment

Related Products

- ✓ 100 Gbps LAN-WDM ROSA ER4 Lite
- ✓ 100 Gbps CWDM ROSA CLR4
- ✓ 100 Gbps LAN-WDM TOSA LR4
- ✓ 100 Gbps CWDM TOSA CLR4

Characteristics

Parameter	Symbol	Min.	Тур.	Max.	Unit
Center Wavelengths of Channels	I _{cn}	1295.56, 1300.05, 1304.58, 1309.14			nm
PD Responsivity	R	0.5	-	0.8	A/W
OMA Sensitivity at 25 Gbps ¹	S _{OMA}	-	-10.5	-9.0	dBmOMA
OMA Sensitivity at 28 Gbps ²	S _{OMA}	-	-	-9.5	dBmOMA
OMA Overload ¹	OL _{OMA}	+4.5	-	-	dBmOMA
Differential Output Voltage	V_{op} - V_{on}	-	300	-	mV_{p-p}
Power Supply Voltage	V _{cc}	3.13	3.30	3.47	V
Power Supply Current	I _{cc}	100	-	150	mA
Operating Temperature	T _{op}	-5	25	+75	°C

1. OMA sensitivity & overload of each channel is measured at 10¹² BER and PRBS 2²³ – 1 condition.

2. OMA sensitivity of each channel for OTU4 is measured at 1.8 x 10⁴ BER and PRBS 2²³ – 1 condition.



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Package Specifications

Unit; mm



Electrical Pad Configurations

Pad Number	DC FPCB		RF FPCB		
	Pad Name	Description	Pad Name	Description	
1	GND	Ground	GND	Ground	
2	Vcc	Power Supply	GND	Ground	
3	Vcc	Power Supply	D3p	Data Output(+) for L3	
4	GND	Ground	D3n	Data Output(-) for L3	
5	GND	Ground	GND	Ground	
6	RSSI3	RSSI Output for L3	D2p	Data Output(+) for L2	
7	RSSI2	RSSI Output for L2	D2n	Data Output(-) for L2	
8	GND	Ground	GND	Ground	
9	GND	Ground	D1p	Data Output(+) for L1	
10	GND	Ground	D1n	Data Output(-) for L1	
11	GND	Ground	GND	Ground	
12	GND	Ground	D0p	Data Output(+) for L0	
13	GND	Ground	D0n	Data Output(-) for L0	
14	GND	Ground	GND	Ground	
15	GND	Ground	GND	Ground	
16	RSSI1	RSSI Output for L1	-	-	
17	RSSI0	RSSI Output for L0	-	-	
18	GND	Ground	-	-	
19	GND	Ground	-	-	

* Each channel from L0 to L3 is corresponding to the input signal with center wavelength of 1296.59, 1300.05, 1304.58, and 1309.14 nm respectively.

For sales information, please contact sales@coset.com

