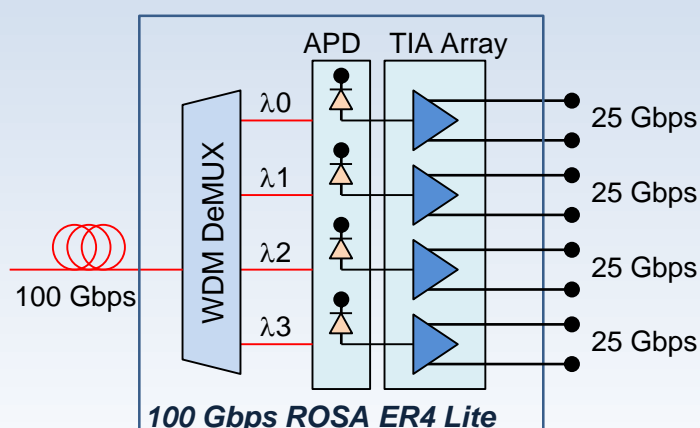


100 Gbps LAN-WDM ROSA ER4 Lite



Features

- ✓ 4 x 25 Gbps LAN-WDM 100GBASE-ER4 Lite Ethernet
- ✓ Compatible to CFP4/QSFP28 Transceivers Up to 30 km
- ✓ Low Insertion Loss Optical Filter Based DeMUX
- ✓ Quad InGaAs/InP APD's and Integrated TIA Array
- ✓ Electrical Interfaces Via Separate RF and DC FPCB's
- ✓ APD Bias Voltage Supply through Anode Output Pin's
- ✓ 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 ER4 Lite Transceivers

Related Products

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

Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit
Center Wavelengths of Channels	λ_{cn}	1295.56, 1300.05, 1304.58, 1309.14			nm
APD Responsivity ¹	R	4	5	-	A/W
OMA Sensitivity at 25 Gbps ^{1,2}	S _{OMA}	-	-18.0	-17.0	dBmOMA
OMA Sensitivity at 28 Gbps ^{1,3}	S _{OMA}	-	-	-17.5	dBmOMA
OMA Overload ^{1,2}	OL _{OMA}	-1.0	-	-	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

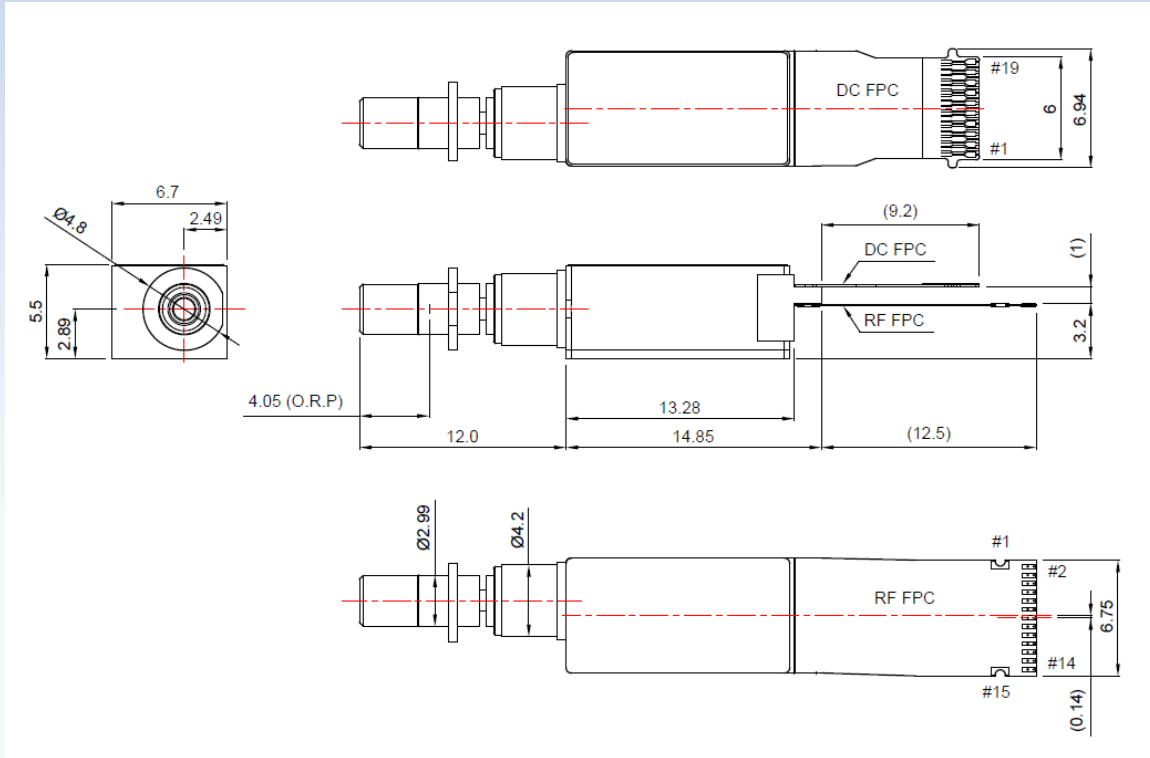
1. APD responsivity is measured on the condition of APD bias voltage of $V_{BR} - 1V$.
2. OMA sensitivity & overload of each channel is measured on 10^{-12} BER and PRBS 2²³ - 1 condition.
3. OMA sensitivity of each channel for OTU4 is measured on 1.8×10^{-4} BER and PRBS 2²³ - 1 condition.



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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	VAPD3	APD Bias Voltage for L3	D2p	Data Output(+) for L2
7	VAPD2	APD Bias Voltage 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	VAPD1	APD Bias Voltage for L1	-	-
17	VAPD0	APD Bias Voltage 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



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