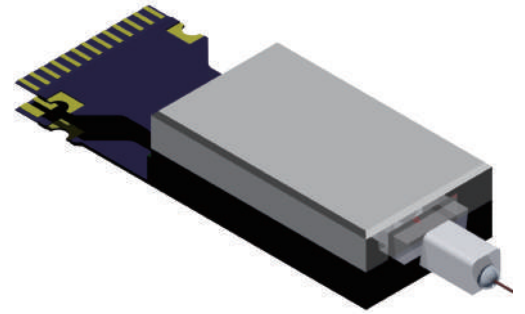


Highly Compact 400G PAM4 ROSA

Summary

NEON Photonics' 400G PAM4 ROSA is designed for 400 Gigabit Ethernet interface, QSFP-DD MSA over single mode fiber 2km. The specifications are compliant with the 400G-FR4 Technical Specification of 100G Lambda MSA. Its key differentiator is a highly compact optical and electrical design technology.



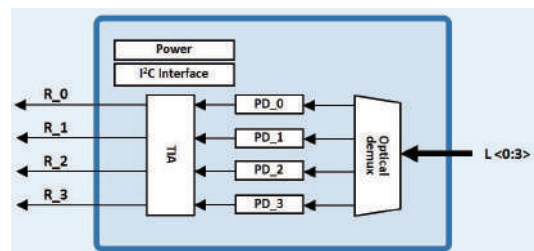
Key Features

- 100G x 4ch PAM4 optical I/F
- 100G x 4ch PAM4 electrical I/F
- Lens-less optical coupling technology
- Compact package technology
- QSFP-DD compatible
- Cost competitiveness
- Capacity(multi-channel) scalability
- Availability to user defined design
- W x L x H = 7.1 x 11 x 3 mm³
- Datacenter (400G FR-4)
- Optical connectivity

Application

- Datacenter (400G FR-4)
- Optical connectivity

Block Diagram



Specification

RX Parameter	Unit	Specification
PAM4 Signaling rate, each lane (range)	GBd	53.125 ± 100 ppm
Lane wavelengths (range)	nm	1264.5 to 1277.5
		1284.5 to 1297.5
		1304.5 to 1317.5
		1324.5 to 1337.5
Damage threshold, each lane (min)	dBm	4.5
Average receive power, each lane (max)	dBm	3.5
Average receive power, each lane (min)	dBm	-7.5

*Available for customized specification