



Semtech GN3068

11.3Gb/s low power ROSA for 10km Applications



The GN3068 ROSA is a fully integrated device with design features that ensure excellent RF stability, together with high gain and low power dissipation. The GN3068 offers state of the art sensitivity for both stressed and unstressed data, and employs a unique crosstalk reducing architecture to ensure class leading sensitivity in all module applications. The advanced Rchip architecture provides the GN3068 with exceptional crosstalk performance to optimize sensitivity in real-world module applications.

Overview

Features

- Power dissipation 90mW typical
- Single +3.3V power supply
- Integral InGaAs photodiode
- Optical sensitivity (10^{-12} BER)
 - (unstressed) -19.5dBm mean
 - (base L) -16dBm OMA
- Optical overload (10^{-12} BER)
 - mean 3dBm typical
- Optical wavelength range 1260-1610nm
- Responsivity 0.8A/W

Applications

- ITU/IEEE-based transmission systems, test equipment and modules
- OC-192 fibre optic modules and line termination
- 10 Gigabit Ethernet
- Serial data systems up to 11.3Gb/s

Order Codes

- GN3068-3EB6AL3E3: LC with F10019 Flex
- GN3068-3EB6AM3E3: LC with XMD V5 Flex
- GN3068-3EB6AM4E3: LC with XMD V2 Flex
- GN3068-3EB6AM5E3: LC Leaded (no flex)