

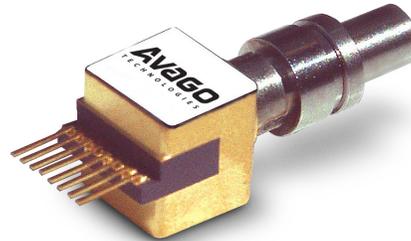
# 1640 (PIN) and 1641 (APD)

## 10 Gb/s Small Form-Factor Detector + TIA

### Receiver Optical Sub-Assemblies (ROSAs)



## Product Brief



### Description

The 1640 and 1641 -Type 10 Gb/s receiver optical sub-assembly (ROSA) integrates a 10 Gb/s APD or PIN photodetector and a transimpedance amplifier (TIA) in a metal/ceramic package. These receiver optical engines are designed for use in transceivers and transponders for high-speed data and telecommunications applications.

### Applications

- XFP, X2, and Xenpak Transceivers
- 300-pin transponders, LFF and SFF

### Features

- Up to 11.3 Gb/s data-rate capability
- -28 dBm typical sensitivity (APD version)
- -20.5 dBm typical sensitivity (PIN version)
- 12 k $\Omega$  typical differential transimpedance gain
- Flat group delay
- 3.3V single power supply
- LC receptacle
- Wide operating temperature range: -5 to +85°C
- Versions with linear TIA (164xL1) available

For product information and a complete list of distributors, please go to our web site: [www.avagotech.com](http://www.avagotech.com)

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