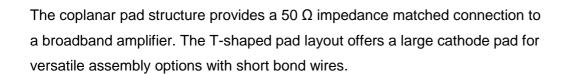
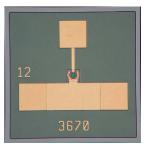


# PDCS12T 40 Gb/s Photodiode

PDCS12T is an InGaAs/InP ultra high speed photodiode chip featuring an optical aperture with a diameter of 12  $\mu$ m. The chip is available either with a tapered coplanar transmission line or a T-shaped pad outline. The top illuminated photodiode is optimized for single-mode data- and telecom applications up to 43 Gb/s and offers an excellent responsivity and high speed of response in the wavelength region from 1260 to 1620 nm.







### **BENEFITS**

- Ultra high speed
- Two layout options available
- Suitable for flip-chip bonding

## **FEATURES**

- Top illuminated 40 Gb/s InGaAs photodiode
- Optical aperture: 12 μm
- Typical responsivity of 0.6 A/W @ 1310 nm
- Low capacitance: 70 fF
- Low dark current: 2 nA
- Low bias voltage: 2.5 V
- Operating temperature range:
  -40 to 85 ℃

### **APPLICATIONS**

- 40G SONET / SDH
- 25G Ethernet
- 40 GHz analog links

# **AVAILABILITY**

Volume production





**PRODUCT BRIEF** 

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