

HIGH-SPEED PHOTODIODES

PRODUCT OVERVIEW

Our high-speed Uni-Travelling Carrier (UTC) Photodetector products offer world leading power handling capability and linearity. They are ideal for RF photonic links, photonically generated RF signals and high-speed, high-linearity photodetection.

KEY PRODUCT FEATURES

- High 3dB Bandwidth: from 1 to 100GHz
- High power: up to 140mW depending on the Photodiode selection
- High linearity: $IP_3 > 30\text{dBm}$

APPLICATIONS

- RF Photonic links
- Photonic RF generation
- High-speed Photodetection
- Multimode Photodetection
- Microwave Photonic Links



KEY PRODUCT SPECIFICATIONS

Product Series	Operating Wavelength(nm)				Bandwidth(GHz)	Responsivity(A/W) ¹		Voltage (V) ²		IP ₃ (dBm)
	C-Band		1000nm			C-band	1000nm	Min	Max	
	Min	Max	Min	Max						
D4	1530	1565	NA	NA	25	0.4	NA	-5	-8	>31
D13	1530	1565	980	1100	40	0.4	0.35	-4	-6	>32
DF	1530	1565	NA	NA	100	0.2	NA	-2	-4	>33

¹ Responsivity is measured at specific bias condition and at 10mW photocurrent

² Optimal bias point depends on the PD size. Please refer to detailed product manual