

DRP2-43T2 PIN Fiber Optic Photodetector

Features

- Wavelength 1000 – 1600 nm
- Proven high reliability InGaAs Planar PIN Detector
- Dielectric passivated chip for low dark current
- Anti-reflection optical coating optimized for high responsivity
- Hermetically sealed components
- Rugged 50/125 μm multimode fiber pigtailed package

Applications

- Optical power monitoring

Description

Nortel Networks Optical Components PIN Fiber Optic Photodetector has been specifically designed for use in local area networks and fiber optic links. It has a combination of high responsivity, low capacitance and low dark current. Nortel Network Optical Components' high quality and reliability are featured in a ruggedized, hermetically sealed metal package which is fully tested for environmental integrity.



Absolute Maximum Ratings

Parameter	Min	Max	Unit
Operating temperature	-40*	+80	°C
Storage temperature	-40	+85	°C
Radiant input power		1	mW
Forward current		1	mA
Bias voltage		-20	V
Fiber bend radius	30		mm

* In a non-condensing atmosphere

Package Outline Drawing and Dimensions

Dimensions in mm.

Lower device drawing shows universal clamp fitted.

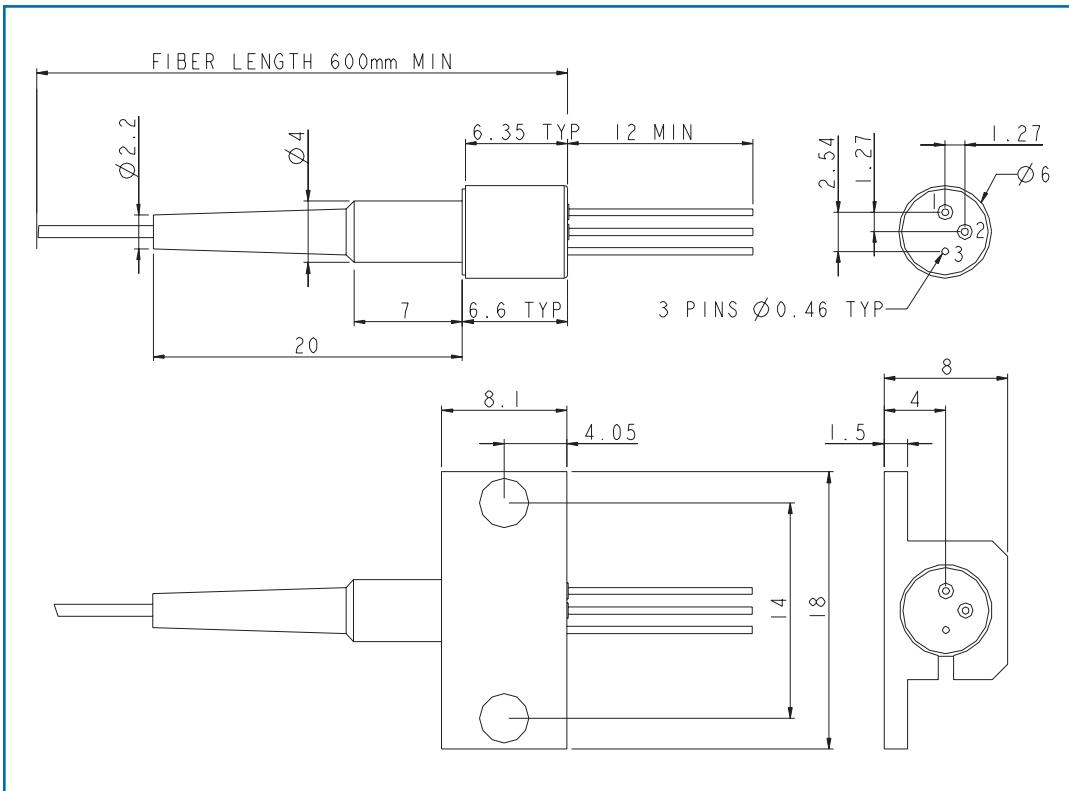


Figure 1: Package outline drawing and dimensions

Connections

DRP2-43T2	Pin	1	Detector anode
		2	Detector cathode
		3	Case

Characteristics

Case temperature: 25°C

Bias voltage: 5.0 V

ESD precautions apply for a Class 2 device as defined in Bellcore TR-NWT-000870.

Parameter	Min	Typ	Max	Unit
Responsivity at 1300 nm at 1550 nm	0.7	0.8 0.85		A/W A/W
Dark current		0.2	5	nA
Bandwidth (-3 dB)		400		MHz
Capacitance at leads			1.3	pF
Optical return loss			-25	dB

Reliability/Quality

Qualified to Telcordia GR-468-CORE.

Ordering Information

Please order as DRP2-43T2 (C**) (H) FC/PC=C34
where C** is the connector type and H signifies universal clamp fitted.

For example: DRP2-43T2C34

Other connector types are available on request.



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