

# TEC inside SPAD

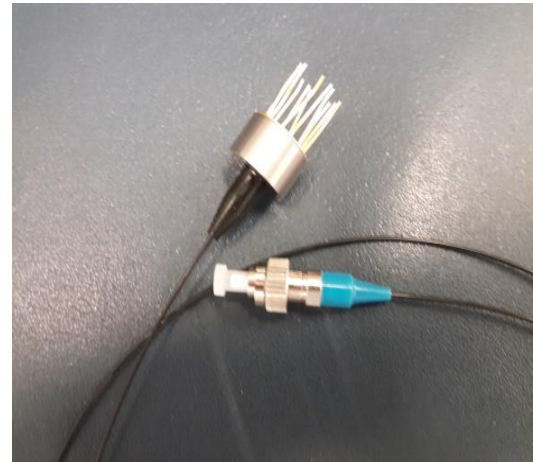
## 제품 설명

### Applications

- Quantum Cryptography
- Optical Time Domain Reflectometry
- Laser Range Finder
- Fundamental Studies in Quantum Physics

### Features

- InGaAs/InP Avalanche Photodiode
- Optimized for 1000 to 1600nm Wavelength
- Built in 3-stage TEC with Thermistor
- TO-8 type with 6 pins



### Specifications

	Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Geiger Mode	Detection Efficiency	<b>DE</b>	Repetition Rate = 10 MHz, Pulse Width = 2 ns	10	-	-	%
	Dark Count Probability	<b>DCP</b>		-	-	10 <sup>-5</sup>	/gate
	Afterpulse(Total)	<b>P<sub>AP</sub></b>	@ 15% DE	-	10	-	%
	Operation Temperature	<b>Top</b>	@50°C	-40	-	-	°C
TEC Mode	Maximum ΔTemperature	<b>ΔT</b>	@Qmax=0	-	-	114	°C
	Current	<b>I<sub>max</sub></b>	@1.9V	-	-	2.4	A

