

# InGaAs Quadrant PD TO-CAN

## WQPD3K/WQPD2K

### Features

- 800nm ~ 1700nm spectral response
- High Sensitivity
- Low Crosstalk
- High Shunt Resistance
- Low Dark Current
- Low noise and high reliability
- Monolithic chip with minimal dead space
- Standard TO-5 package with flat window

### Applications

- Laser seeker
- Position Sensing
- Laser spot tracking
- Laser range finder
- Free space optical communication
- Missile Guidance
- Beam Alignment
- Optical Tweezers
- Auto tracking system

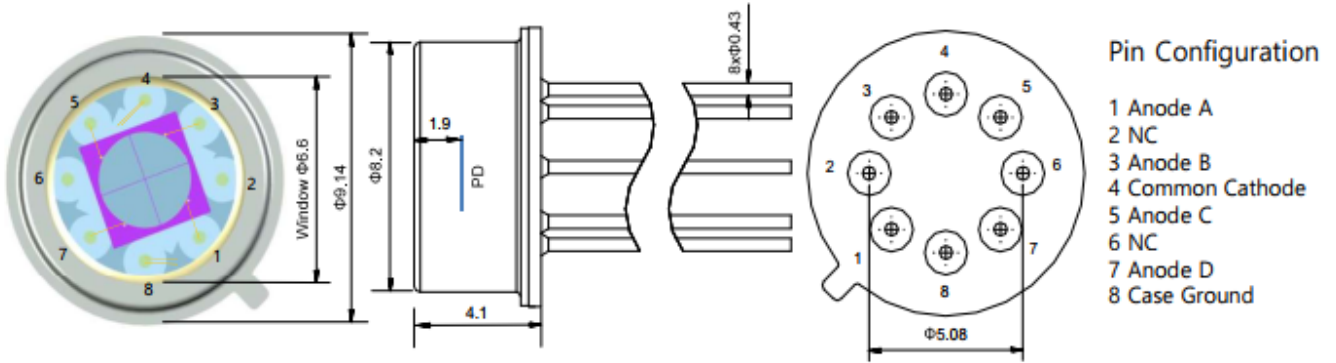
### Electro-Optical Characteristics (WQPD3K)<sup>1)</sup>

Parameter	Symbol	Test Conditions	Min	Typ.	Max.	Unit
Light-receiving diameter <sup>1)</sup>	D			3		mm
Gap between elements	D			0.025		mm
Crosstalk		$V_R=V_{op}$		1	2	%
Wavelength range	$\lambda$		800		1700	nm
Shunt resistance	$R_{sh}$			30		M $\Omega$
Dark current(per element)	$I_d$	$V_R=V_{op}$		2	70	nA
Responsivity	R	1064nm	0.7	0.75		A/W
		1550nm	0.9	1.05		A/W
Operating voltage	$V_{op}$			2	5	V
Noise equivalent power	NEP	1300nm		1		pW/ $\sqrt{Hz}$
Capacitance	$C_d$	Per quadrant, $V_R=V_{op}$		100		pF
Operating temperature	$T_o$		-40		85	$^{\circ}C$
Package type				TO-5		

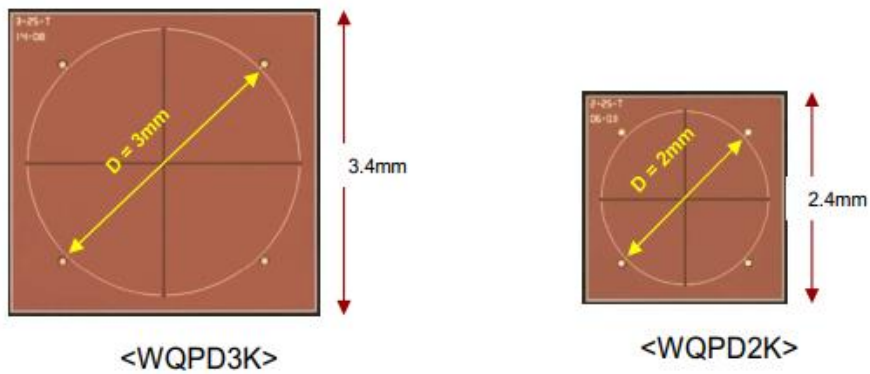
1) Light-receiving diameter of WQPD2K is 2mm. The performance is not shown here.

**Mechanical Dimension**

**Package Dimension (unit: mm)**



**PD Chip Dimension (unit: mm)**



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Specifications described here are subject to change without notice