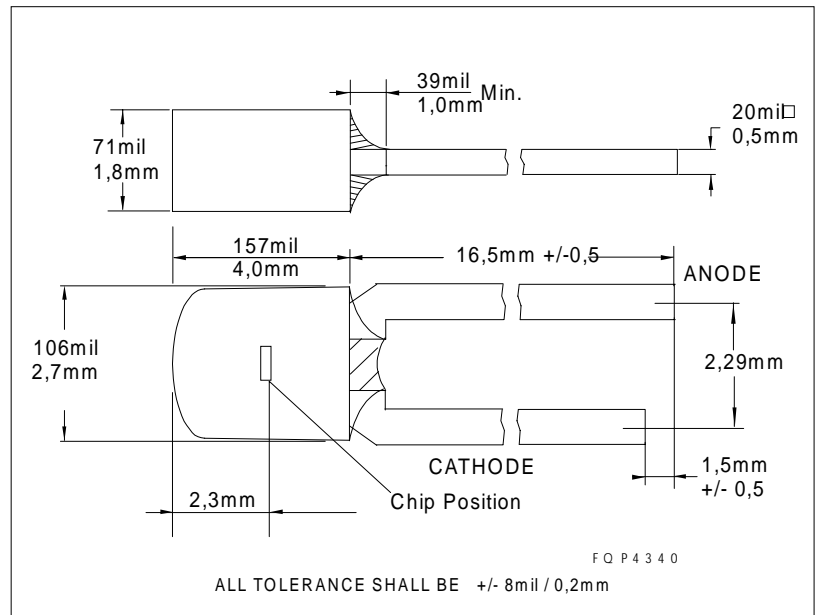


# MinLED Blue

# 470nm FQP4320 / FQP4321

## Features

- \* Standard design LED for special purpose  
Based on GaN
- \* without reflector, edged light ray on all sides
- \* white diffuse package style
- \* Very high brightness for low-current mode  
at 1mA and 3mA
- \* low-cost type for consumer applications  
FQP4321
- \* also available in white (FQP4840; 500mcd)  
green (FQP4350; 30mcd)  
yellow (FQP4341; 30mcd)  
red or other color on request
- \* Application :



Replacing of Mini-LED's in Sensor-Connectors Type M8 (Hirschmann ELST-serie or similar)  
Bar-Graph-displays, Illumination

## Electrical and optical characteristics and absolute maximum ratings ( Ta=25°C unless otherwise noted )

Symbol	Parameter	MIN	Typ	MAX	Unit	Test conditions
I <sub>F</sub>	DC Forward current			25	mA	
I <sub>PEAK</sub>	Peak Forward current			75	mA	T <sub>p</sub> < 10µsec. ; T=1:100 ; R <sub>therm</sub> < 100 K/W
V <sub>F</sub>	Forward Voltage		3,3	4	V	I <sub>F</sub> = 20mA
V <sub>R</sub>	Reverse Voltage	4			V	I <sub>rev</sub> = 10µA
λ <sub>Peak</sub>	Peak Wavelength	470		475	nm	I <sub>F</sub> = 20mA
Δλ <sub>0,5</sub>	Bandwidth of half power		30		nm	I <sub>F</sub> = 20mA
I <sub>v</sub>	Luminous intensity FQP4320	50	100		mcd	I <sub>F</sub> = 20mA
I <sub>v</sub>	Luminous intensity FQP4320	8	20		mcd	I <sub>F</sub> = 3mA
I <sub>v</sub>	Luminous intensity FQP4320		6		mcd	I <sub>F</sub> = 1mA *
I <sub>v</sub>	Luminous intensity FQP4321	10	30		mcd	I <sub>F</sub> = 20mA
I <sub>v</sub>	Luminous intensity FQP4321	3	5		mcd	I <sub>F</sub> = 3mA
I <sub>v</sub>	Luminous intensity FQP4321		2,5		mcd	I <sub>F</sub> = 1mA *
2F <sub>0,5</sub>	Emission Angel horizontal		65		deg.	E / I <sub>v</sub> = 50%; I <sub>F</sub> =20mA, from top surface
TK <sub>VF</sub>	Temp.Coeff. of Forward Voltage		-0,3		mV/K	
TK <sub>F</sub>	Temp.Coeff. of Radiant Power		-0,3		%/K	
T <sub>Operating</sub>	Operating Temperature	- 25		85	°C	
T <sub>Storage</sub>	Storage Temperature	- 25		85	°C	
T <sub>Soldering</sub>	Soldering Temperature			260	°C	5mm from case @ 5 sec.
Q <sub>j-PIN</sub>	Thermal Resistance		450		K/W	
P <sub>tot</sub>	Total Power Dissipation			100	mW	derate above 55°C 1,5mW/K

\* only for information

Order Informations :

FQP4320      Bulk  
FQP4321      Bulk

Fietje reserves the right to make changes at any time in order to improve design and to supply the best product possible, contact Fietje for latest device specification sheets before using.