

ROITHNER LASERTECHNIK GIRDH

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LED16FC-TEC-PR

TECHNICAL DATA



Mid-Infrared Light Emitting Diode, Flip-Chip Design

Light Emitting Diodes with central wavelength 1.65 μ m series are based on heterostructures grown on GaSb substrates by LPE. Solid solutions AlGaAsSb are used in the active layer. Wide band gap solid solutions AlGaAsSb with Al content 64% are used for good electron confinement. LED16FC-TEC-PR has a stable ouput power and a lifetime more then 80000 hours.

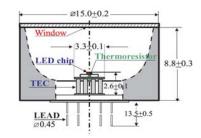
Features

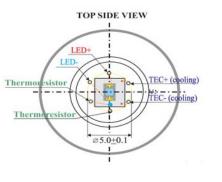
- Structure: GalnAsSb/AlGaAsSb, Flip-Chip Design
- Peak Wavelength: typ. 1.65 μm
- Optical Ouput Power: typ. 1.2 mW gCW
- Package: TO-5, with TEC, thermistor, PR and window



Specifications

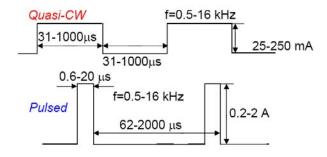
Item	Condition	Rating			Unit
		Min.	Тур.	Max.	Uill
Peak Wavelength	T=300 K	1.60	1.65	1.69	μm
FWHM	150 mA CW	100	150	200	nm
Quasi-CW Optical Power	200 mA qCW	0.8	1.2	2	mW
Pulsed Optical Power	1 A	20	30	40	mW
Switching Time	T=300 K	10	20	30	ns
Operation Voltage	200 mA qCW				V
Operating Temperature	-240 + 50				ç
Emitting Area	670x770				μm
Soldering Temperature	180				ပ္
Package	TO-5, with built-in thermocooler, thermoresistor parabolic reflector and quartz window				





(Unit: mm)

Operating Regime



Quasi-CW

- Maximum current 220 mA
- Recommended current 150-200mA

Pulsed

 Maximum current 1 A (puls lenght 500 ns, repetition rate 2kHz)



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Typical Performance Curves

