## Model LED21-TEC-PR 2.15 μm 1.1 mW

•Light Emitting Diodes *LED21-TEC-PR* are designed for emitting at a spectral range around 2150 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on GaSb substrates

•Light Emitting Diodes *LED21-TEC-PR* are developed for using in optical gas sensors and medical diagnostics. Such construction gives possibility for temperature stabilization of LED parameters. Lifetime is more than 10000 hours. •Related products: *LED21* can be used in optical pair with our photodiodes

**PD24**. Our standard **LED Driver** provides power supply of **LED21-TEC-PR** in two recommended here regimes (Quasi-CW and Pulsed).

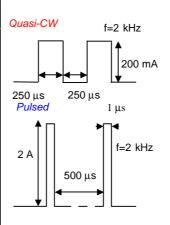


Main thermocooler	parameters	(without	load)
Main themilocoole	parameters	( WILL TO GL	iouu,

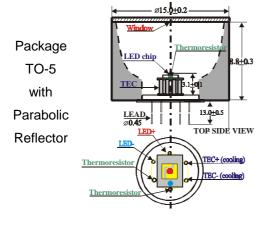
I <sub>max</sub> (Amps)	Q <sub>max</sub> (Watts)	U <sub>max</sub> (Volts)	$\Delta T_{max}$ °C
0.7	0.4	1.0	67

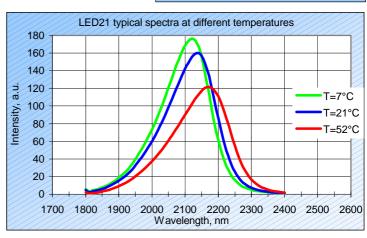
	50 -				
Ohm	40				
Thermoresistance, kOhm	30 -				
sistar	20 -				
rmore	10 -				
The	10 -				
-2	20 (	) 2 Temper	0 4 ature, C	0 6	0

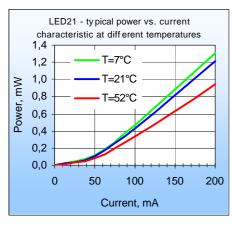
Parameters	Min	Тур	Max
Wavelength, μm	2.10	2.15	2.19
FWHM, μm	0.15	0.20	0.25
Optical Power, μW			
Quasi-CW @ 200 mA	0.9	1.1	1.3
Pulsed@2A	25	28	30
Switching Time, ns	10	30	50
Range of temperature control °C	-10÷+60		
Emitting Area, μm	300x300		
Soldering temperature	95 °C		
Package	TO-5 with thermocooler, thermistor and Parabolic Reflector		

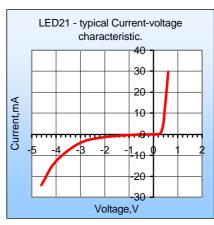


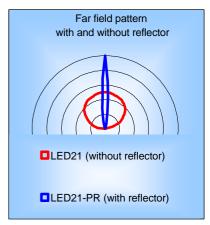
Recommended regimes of LED operation











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