

LIGHT EMITTING DIODES 1.6÷4.6 μm

Model LED20-TEC 2.05 mm 1.1 mW

- Light Emitting Diodes **LED20-TEC** are designed for emitting at a spectral range around 2050 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on GaSb substrates
- Light Emitting Diodes **LED20-TEC** are developed for using in optical gas sensors and medical diagnostics. Such construction gives possibility for temperature stabilization of LED parameters. Lifetime is more then 10000 hours.
- Related products: **LED20** can be used in optical pair with our photodiodes **PD24**. Our standard **LED Driver** provides power supply of **LED20-TEC** in two recommended here regimes (Quasi-CW and Pulsed).

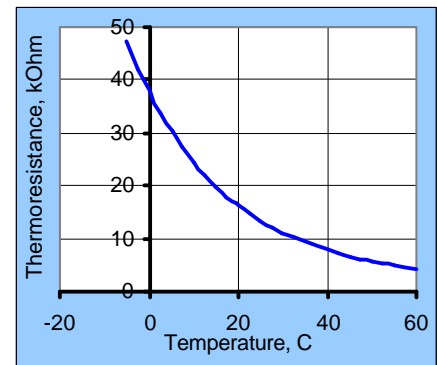
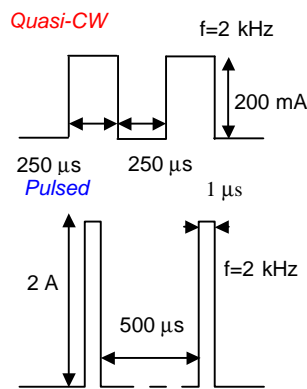


Main thermocooler parameters (without load)

I_{max} (Amps)	Q_{max} (Watts)	U_{max} (Volts)	ΔT_{max} °C
0.7	0.4	1.0	67

Parameters	Min	Typ	Max
Wavelength, μm	2.00	2.05	2.09
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 and thermistor		

Recommended regimes of LED operation



Package TO-5

