

LIGHT EMITTING DIODES 1.6÷4.6 μm

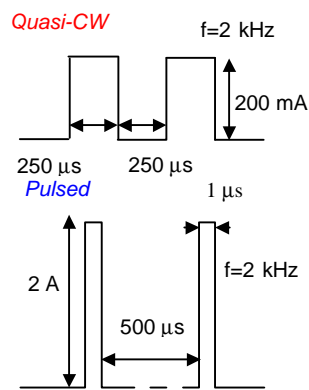
Model LED43-TEC 4.3 μm 10 μW

- Light Emitting Diodes **LED43-TEC** are designed for emitting at a spectral range around 4300 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on InAs substrates
- Light Emitting Diodes **LED43-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: Our standard **LED Driver** provides power supply of **LED43-TEC** in two recommended here regimes (Quasi-CW and Pulsed).



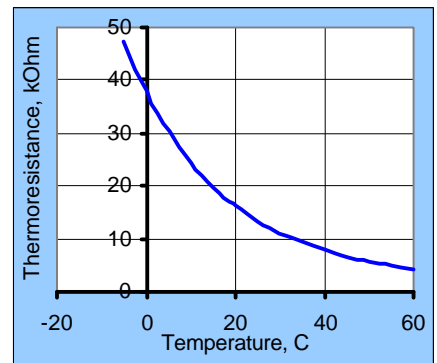
Parameters	Min	Typ	Max
Wavelength, μm	4.10	4.20	4.30
FWHM, μm	0.75	0.90	1.05
Optical Power, μW Quasi-CW @ 200 mA Pulsed @ 2A	8 180	10 200	12 220
Switching Time, ns	10	30	50
Range of temperature control $^{\circ}\text{C}$	-10÷+60		
Emitting Area, μm	300x300		
Soldering temperature	95 $^{\circ}\text{C}$		
Package	TO-5 with thermocooler and thermistor		

Recommended regimes of LED operation



Main thermocooler parameters (without load)

I_{max} (Amps)	Q_{max} (Watts)	U_{max} (Volts)	ΔT_{max} $^{\circ}\text{C}$
0.7	0.4	1.0	67



Package TO-5

