LIGHT EMITTING DIODES 1.6÷4.6 μm

Model LED46-TEC

4.6 mm 6 mW

- •Light Emitting Diodes LED46-TEC are designed for emitting at a spectral range around 4600 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on InAs substrates
- •Light Emitting Diodes LED46-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 LED46-TEC in two recommended here regimes (Quasi-CW and Pulsed).

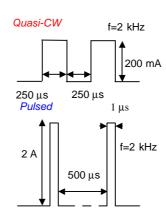
and thermistor

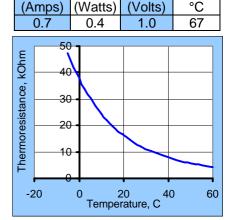


Parameters	Min	Тур	Max
Wavelength, μm	4.40	4.50	4.60
FWHM, μm	1.00	1.10	1.20
Optical Power, μW Quasi-CW @ 200 mA Pulsed@2A	4 100	6 120	8 140
Switching Time, ns	10	30	50
Range of temperature control °C	-10÷+60		
Emitting Area, μm	300x300		
Soldering temperature	95 °C		
Package	TO-5 with thermocooler		

Package

Recommended regimes of Main thermocooler parameters (without load) $\boldsymbol{Q}_{\text{max}}$ max





 U_{max}

 ΔT_{max}

Package TO-5

