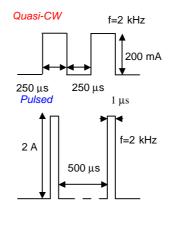
Model LED38-TEC

$3.8 \, \mu m \, 16 \, \mu W$

- •Light Emitting Diodes LED38-TEC are designed for emitting at a spectral range around 3800 nm. Thermocooler and thermoresistor are mounted inside 9 mm package TO-5. Heterostructures (HS) are grown on InAs substrates
- •Light Emitting Diodes LED38-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 LED38-TEC in two recommended here regimes (Quasi-CW and Pulsed).

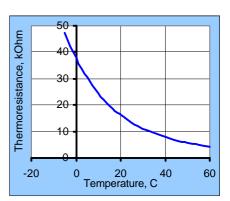
Parameters	Min	Тур	Max
Wavelength, μm	3.70	3.80	3.90
FWHM, μm	0.60	0.70	0.80
Optical Power, μW Quasi-CW @ 200 mA	12	16	20
Pulsed@2A	180	200	220
Switching Time, ns	10	30	50
Range of temperature control °C	-10÷+60		
Emitting Area, μm	300x300		
Soldering temperature	95 °C		
Package	TO-5 with thermocooler and thermistor		

Recommended regimes of LED operation



Main thermocooler parameters (without load)

I _{max}	Q_{max}	U_{max}	ΔT_{max}
(Amps)	(Watts)	(Volts)	ç
0.7	0.4	1.0	67



Package TO-5

