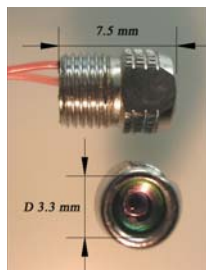
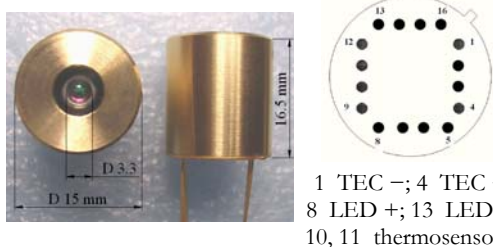
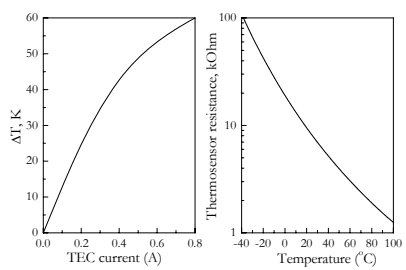
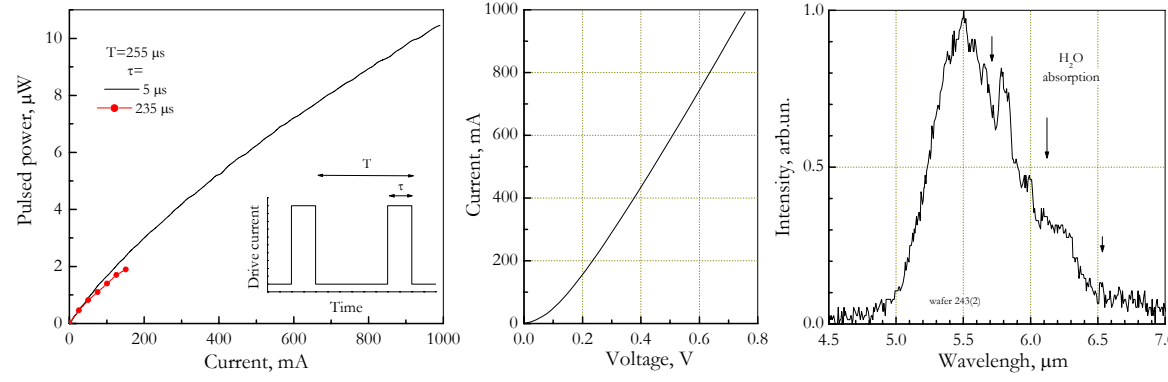


Optically Immersed 5.5 μm LED in heat-sink optimized housing				LED55Sc	
Peak wavelength	λ_{max}	μm	5.5 \div 5.7		
Pulsed power at I=1 A	P_{pulsed}	μW	10 \pm 2		
CW power at I=150 mA	P_{CW}	μW	2 \pm 0.5		
Switching time	τ	ns	\leq 20		

Code	Thread	Emission size, mm	Lens material	Far-field pattern FWHM, deg.	Optical axis deviation, deg	Operation (storage) conditions, $^{\circ}\text{C}$
LED55Sc	M5 \times 0.5	\varnothing 3.3	Si	\leq 20	\leq 7	-25 \div +60 (+80)
LED55TO8TEC			Si lens and sapphire window			

	LED55Sc	LED55TO8TEC
Product view		 <p>1 TEC -; 4 TEC + 8 LED +; 13 LED - 10, 11 thermosensor</p> 

- ✓ All devices are stressed at 80 $^{\circ}\text{C}$ (I=0) and I=150 mA (CW, 20 $^{\circ}\text{C}$) for 10 hrs before final test and shipping to a customer.
- ✓ Beam divergence of the LEDs is small and thus we recommend adjusting LED position regarding to the detector system before final evaluation/use of the devices.
- ✓ All data are valid for room temperature (22 $^{\circ}\text{C}$) and LED attached to a heatsink. Heatsink is important for normal LED operation especially in the CW mode.
- ✓ Polarity: short wire is negative or white point on house is positive

Output power vs. current, current-voltage curve and emission spectra


Output power and peak wavelength vs. temperature, far-field pattern and maximal current vs. operation conditions
