

Infra Red LED

LED42SC



Optically Immersed 4.2 μm LED in heat-sink optimised housing				LED42Sc
Peak wavelength	λ_{max}	μm	4.2 \pm 0.1	
Pulsed power at I=1 A	P_{pulsed}	μW	70 \pm 15	
CW power at I=200 mA	P_{CW}	μW	25 \pm 5	
Switching time	τ	ns	\leq 20	

Code	Thread	Emission size, mm	Lens material	Far-field pattern FWHM, deg.	Operation (storage) conditions, $^{\circ}\text{C}$	Polarity
LED42Sc	M5 \times 0.5	\varnothing 3.3	Si	\leq 20	-25 - +60 (+80)	short wire or black point is negative
LED42TO8TEC			Si lens and sapphire window			See fig. below

	LED42Sc	LED42TO8TEC
Product view		

- ✓ All devices are stressed at 80 $^{\circ}\text{C}$ and I=200 mA (CW) for 10 hrs before final test and shipping.
- ✓ Beam divergence of the LEDs is small and thus we recommend adjusting LED position regarding the detector system before final evaluation/use of the devices.
- ✓ All data is valid for room temperature (22 $^{\circ}\text{C}$) and LED attached to a heatsink. A heatsink is important for normal LED operation especially in the CW mode.
- ✓ Available accessories include driver electronics and detectors.
- ✓ Available wavelengths include 1.9, 2.15, 3.0, 3.4, 3.6, 3.8, 4.2, 4.7, 5.5 and 7.0 μm .
- ✓ Devices emit negative luminescence at reverse bias.

