

ROITHNER LASERTECHNIK GIRDH





MIRO39A6

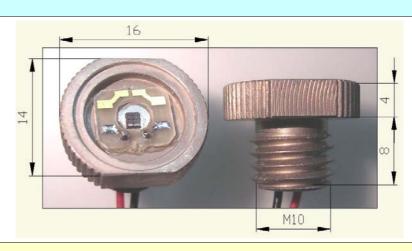
Technical Specifications (T = 22 °C)

Optically pumped IF	R light emitting o				
Peak wavelength		λ_{max}	μ m	3.9±0.05	
Spectral width FWHM			μ m	0.75±0.05	
Current test conditions:	Pulse duration	τ		5	
	Pulse period	Т	μS	255	
Number of emitting elements		-	ps	6 in serial connection	
Voltage at drive current I = 0.3 A		U _{pulsed}	V	9.7	
Max. drive current		I _{max}	Α	To be specified according to the graphs below and heatsink conditions	
Pulsed power at I = 0.3 A		P _{pulsed}	μW	650	
CW power of the LEDs attached to a heatsink at I = 70 mA		P _{CW}	μW	190	
Switching time		τ	ns	≤100	

Packaging and beam parameters

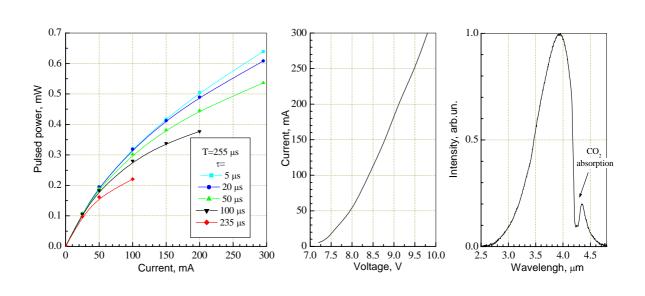
House code	Thread	Emission area size	Far-field pattern FWHM	Operation (storage) conditions	Polarity
		mm ²	deg.	°C	
Screw10	M10×1	1.4×1.7	≈120	-25÷+45	black wire is negative

Pump source view

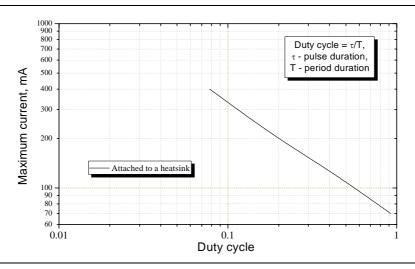


- ✓ All devices are stressed at 80°C and I = 50 mA (cw) for 10 hrs before final test and shipping to a customer.
- ✓ In addition to mid-IR radiation LEDs emit NIR pumping radiation λ = 0.87 μm as well. This "parasitic" emission can be cut off by filters or by a detector window.
- ✓ Heatsink is essential for normal LED operation especially in the CW mode.





Maximal current vs. operation conditions



Output power and emission spectra maximum vs. temperature and far-field pattern

