

ROITHNER LASERTECHNIK

A-1040 WIEN, FLEISCHMANNGASSE 9

TEL: +43 -1- 586 52 43 FAX: +43 -1- 586 41 43

e-mail: rlt@mcb.at <http://www.roithner.mcb.at>

LD17...24 and **LD29...39** are laser diodes based on GaSb-InAs which were developed for applications in tunable diode laser spectroscopy at a wavelength in the mid-infrared range. The output emission can be directly high-frequency modulated by current. The anode is marked with a red dot on the case.

Semiconductor Laser Diodes, CW

Wavelength (μm)	Output Power (mW@mA)	Threshold Current (mA)	Mode Pattern	Rise time (ns)	Spectral Line width (MHz)	Beam diverge (degrees)	Package	Temperature of operation, K	Model No
1.70-1.77	1-10@3 _{kh}	100-400	SM	<20	<70	10x45°	HHL	220-240	LD17
1.80-1.87	1-10@3 _{kh}	100-400	SM	<20	<70	10x45°	HHL	220-240	LD19
2.00-2.06	1-10@3 _{kh}	100-400	SM	<20	<70	20x45°	HHL	220-240	LD20
2.18-2.22	1-10@3 _{kh}	100-400	SM	<20	<70	20x45°	HHL	220-240	LD22
2.74-2.77	2@2 _{kh}	40-100	SM	<10	<90	30x50°	LA	4-110	LD28
3.14-3.19	4@2 _{kh}	60-120	SM	<10	<90	30x50°	LA	4-110	LD31
3.21-3.26	1-10@4 _{kh}	20-80	SM	<10	<90	30x50°	LA	4-110	LD32
3.26-3.33	1-10@4 _{kh}	20-80	SM	<10	<90	30x50°	LA	4-110	LD33
3.40-3.45	1-10@4 _{kh}	35-60	SM	<10	<90	30x50°	LA	4-110	LD34
3.52-3.59	1-10@4 _{kh}	40-80	SM	<10	<90	30x50°	LA	4-110	LD35
3.75-3.79	1-6@4 _{kh}	50-120	SM	<10	<90	30x50°	LA	4-110	LD38

Semiconductor Laser Diodes, Pulsed

Wavelength (μm)	Energy (mW@mA)	Rep. Rate (Hz)	Pulse Length (ns)	Spectral Line width (MHz)	Beam diverge (degrees)	Package	Temperature of operation, K	Model No
1.74-1.78	150@8 _{kh}	10000	100-1000	<70	10x45°	SOT 148,	220-320	LD17p
1.83-1.87	150@8 _{kh}	10000	100-1000	<70	10x45°	SOT 148,	220-320	LD19p
2.03-2.06	150@8 _{kh}	10000	100-1000	<70	20x45°	SOT 148,	220-320	LD20p
2.20-2.24	150@8 _{kh}	10000	100-1000	<70	20x45°	SOT 148,	220-320	LD22p
2.74-2.77	10@10 _{kh}	10000	100-3000	<90	30x50°	LA	4-150	LD28p
3.14-3.19	20@10 _{kh}	10000	100-3000	<90	30x50°	LA	4-180	LD31p
3.21-3.26	20@10 _{kh}	10000	100-3000	<90	30x50°	LA	4-180	LD32p
3.26-3.33	20@10 _{kh}	10000	100-3000	<90	30x50°	LA	4-180	LD33p
3.40-3.45	20@10 _{kh}	10000	100-3000	<90	30x50°	LA	4-160	LD34p
3.52-3.59	10-30@10 _{kh}	10000	100-3000	<90	30x50°	LA	4-160	LD35p
3.75-3.79	10-30@10 _{kh}	10000	100-3000	<90	30x50°	LA	4-150	LD38p