

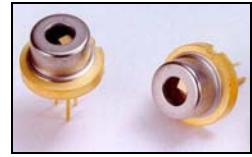
ROITHNER LASERTECHNIK GmbH

WIEDNER HAUPTSTRASSE 76, 1040 VIENNA, AUSTRIA

TEL: +43 -1- 586 52 43-0 FAX: +43 -1- 586 52 43-44

office@roithner-laser.com www.roithner-laser.com

RLT9810GS TECHNICAL DATA



Infrared Laser Diode

Lasing wavelength: **980 nm**

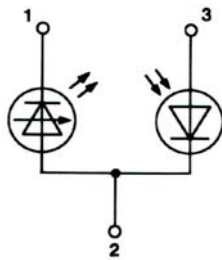
Optical power: **10 mW**

Package: **9 mm**

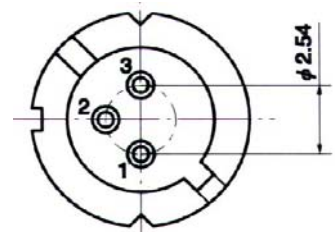
NOTE!
LASER DIODE
MUST BE COOLED!



PIN CONNECTION:



- 1) Laser diode cathode
- 2) Laser diode anode and photodiode cathode
- 3) Photodiode anode



Absolute Maximum Ratings (T_c = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P _o	12	mW
LD Reverse Voltage	V _{R(LD)}	0.5	V
PD Reverse Voltage	V _{R(PD)}	5	V
Operation Case Temperature	T _C	-0 .. +40	°C
Storage Temperature	T _{STG}	-20 .. +70	°C

Optical-Electrical Characteristics (T_c = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Optical Output Power	P _o	cw		10		mW
Threshold Current	I _{th}	cw		50	75	mA
Operation Current	I _{op}	P _o = 10 mW		150	190	mA
Operating Voltage	V _{op}	P _o = 10 mW	1.4	1.5	1.8	V
Lasing Wavelength	λ	P _o = 10 mW	970	980	990	nm
Beam Divergence	θ _∥	P _o = 10 mW	6	8	12	°
Beam Divergence	θ _⊥	P _o = 10 mW	25	30	35	°
Monitor Current	I _m	P _o = 10 mW		1.0	1.2	mA