# ROITHNER LASERTECHNIK

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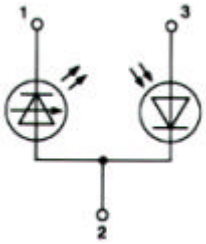
# RLT67100G TECHNICAL DATA

## High Power Visible Wavelength Laserdiode

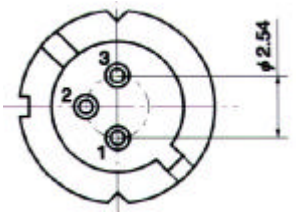
Structure: **InGaAlP/GaAs, Aperture: 1 x 30 µm**
Lasing wavelength: **675 nm, multimode**
Max. optical power: **110 mW**
Package: **9 mm**

NOTE!
LASERDIODE
MUST BE COOLED!


**PIN CONNECTION:**




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




**Absolute Maximum Ratings (Tc=25°C)**

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|---|---|---|
| Optical Output Power | $P_o$ | 110 | mW |
| LD Reverse Voltage | $V_{R(LD)}$ | 0.5 | V |
| PD Reverse Voltage | $V_{R(PD)}$ | 5 | V |
| Operation Case Temperature | $T_C$ | -20 .. +40 | °C |
| Storage Temperature | $T_{STG}$ | -60 .. +70 | °C |

**Optical-Electrical Characteristics (Tc = 25°C)**

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| Optical Output Power | $P_o$ | kink free | | 100 | | mW |
| Threshold Current | $I_{th}$ | cw | 100 | 110 | 130 | mA |
| Operation Current | $I_{op}$ | $P_o$ = 100 mW | | 230 | 250 | mA |
| Operating Voltage | $V_{op}$ | $P_o$ = 100 mW | | 2.3 | 2.4 | V |
| Lasing Wavelength | $\lambda_p$ | $P_o$ = 100 mW | 660 | 675 | 695 | nm |
| Beam Divergence | $\theta_{//}$ | $P_o$ = 100 mW | 6 | 10 | 16 | ° |
| Beam Divergence | $\theta_{\perp}$ | $P_o$ = 100 mW | | 30 | | ° |
| Monitor Current | $I_m$ | $P_o$ = 100 mW | 300 | 400 | 600 | µA |