

LASER DIODE RPMC-915-0300-S50-xx



RPMC-915-0300-S50-xx is 915nm AlGaAs quantum well fabricated by MOCVD semiconductor laser. Low threshold current and high slope efficiency contribute to low operating current enhancing reliability.

RPMC-915-0300-S50-xx is a CW single mode injection semiconductor laser available in 9mm TO-can or chip on sub mount package. The laser diode is suitable for application in various opto-electronic systems.

Optical and electrical characteristics (T = 25°C, P = 300mW):

Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical output power	P _{out}	-	300	-	mW
Wavelength	λ	910	915	920	nm
Spectrum	FWHM $\Delta\lambda$	-	0.5	2.0	nm
Threshold current	I _{th}	-	30	50	mA
Forward current	I _f	-	370	420	mA
Forward voltage	V _f	-	1.9	2.2	V
Slope efficiency	$\Delta P/\Delta I$	0.8	0.9	-	W/A
Vertical far field	$\Theta_{ }$	-	28	30	°
Parallel far field	Θ_{\perp}	-	8	10	°

Specifications are subject to change without notice.

TE Polarized

Additional information:

- wavelength drift under temperature change - <0,3nm/°C;
- LD reverse voltage - 2V;
- PD reverse voltage – 30V;
- operating temperature - -20°C +50°C;
- storage temperature - -40°C +80°C
- lifetime - >100000 hours
- lead soldering temperature - 250°C for 5sec

Available Packages:

C2 chip on 2.1mm sub mount

M9 9mm TO-can with or without PD



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