

# OPTOENERGY

## High-Power 980 nm Singlemode Laser for Telecom Use

Chip on submount /  $\phi 9$  CAN package : 700mW



### Product Specifications @25°C

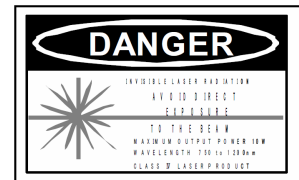
			Min.	Typ.	Max.
Operating light output	Po	mW		700	
Kink free power	Pkink	mW	800		
Center wavelength	$\lambda_c$		970		985
Threshold current	Ith	mA		90	105
Operating current	Iop	mA		920	1000
Operating voltage	Vop	V		1.7	1.8
Spectral width	$\Delta\lambda$	nm			2
Spectral temperature shift	$d\lambda/dT$	nm/K	0.3	0.3	0.3
Far-field parallel FWHM	$\theta_{//}$	deg.		8	
Far-field perpendicular FWHM	$\theta_{\perp}$	deg.		27	
Polarization				TE	

### Absolute Maximum Ratings

			min	max	
Forward current	I <sub>max</sub>	mA	-	1100	
Revers voltage	V <sub>rmax</sub>	V	-	2.0	
Operating temperature	T <sub>op</sub>	°C	0	40	
Storage temperature	T <sub>st</sub>	°C	-40	80	
Process temperature	T <sub>pr</sub>	°C	-	250	5s, Chip on submount
			-	250	5s, C package lead

### Caution

This laser emits invisible radiation which may be harmful to the eyes.  
Avoid direct or reflected light from this device.



Optoenergy Inc. 6705-2 To Naka-shi, Ibaraki, 311-0122 Japan

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## High-Power 980 nm Singlemode Laser for Telecom Use

Chip on submount /  $\phi 9$  CAN package : 400mW



### Product Specifications @25°C

			Min.	Typ.	Max.
Operating light output	Po	mW		400	
Kink free power	Pkink	mW	600		
Center wavelength	$\lambda_c$		970		985
Threshold current	Ith	mA		45	55
Operating current	Iop	mA		500	550
Operating voltage	Vop	V		1.6	1.7
Spectral width	$\Delta\lambda$	nm			2
Spectral temperature shift	$d\lambda/dT$	nm/K	0.3	0.3	0.3
Far-field parallel FWHM	$\theta_{//}$	deg.		7	
Far-field perpendicular FWHM	$\theta_{\perp}$	deg.		34	
Polarization				TE	

### Absolute Maximum Ratings

			min	max	
Forward current	I <sub>max</sub>	mA	-	700	
Revers voltage	V <sub>rmax</sub>	V	-	2.0	
Operating temperature	T <sub>op</sub>	°C	0	40	
Storage temperature	T <sub>st</sub>	°C	-40	80	
Process temperature	T <sub>pr</sub>	°C	-	250	5s, Chip on submount
			-	250	5s, C package lead

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