

■ Electro-optical Characteristics^{※1}

(T_c=25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit	
Threshold current	I _{th}	-	-	30	40	mA	
Operating current	I _{op}	P _o =100mW	-	141	167	mA	
Operating voltage	V _{op}		-	2.1	2.5	V	
Wavelength	λ _p		780	784	787	nm	
Half intensity angle	^{※2※3} Parallel		θ//	7.8	8.7	9.6	°
	^{※2※3} Perpendicular		θ⊥	14.5	16	17.5	°
^{※4} Ripple	R _i		-20	-	+20	%	
Misalignment angle	^{※3} Parallel		Δθ//	-1.5	-	+1.5	°
	^{※3} Perpendicular		Δθ⊥	-2.5	-	+2.5	°
Differential efficiency	η _d		$\frac{70\text{mW}}{I(100\text{mW})-I(30\text{mW})}$	0.8	0.9	1.2	mW/mA
Interference pattern intensity	α		P _o =100mW	-	-	1	-
^{※5} Kink	K-LI	P1=36mW, P2=108mW, P3=180mW	-	-	10	%	
Polarization ratio	P ₁	P _o =3mW, NA=0.13	20	-	-	-	

^{※1} Initial value, CW (Continuous Wave) drive

^{※2} Angle at 50% peak intensity (full-width at half-maximum)

^{※3} Parallel to the junction plane (X-Z plane)

Perpendicular to the junction plane (Y-Z plane)

^{※4} R=ΔP/P ΔP : the maximum deviation of the far field pattern from its approximate curve P : the peak of the approximate curve

^{※5} Pulse drive (Pulse width : 0.5μs, Duty : 50%)

• Please refer to the chapter "Handling Precautions"

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