

NEW

LASER DIODE

Laser diode

L8958 series

High output power: 1.5 mW, pigtail type



Features

- High output power: 1.5 mW
- High-speed response: 1.25 Gbps Max.
- 1.3 μm FP (Fabry-perot) laser

Applications

- Optical fiber communications

■ Absolute maximum ratings ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Note	Value	Unit
Forward current (laser diode)	I_F Max		$I_{th} + 14$ (CW)	mA
		Duty ratio 50 %	$I_{th} + 28$ (pulse)	
Operating temperature	T_{opr}	*	-20 to +70	$^\circ\text{C}$
Storage temperature	T_{stg}	*	-40 to +70	$^\circ\text{C}$

* No condensation

■ Electrical and optical characteristics ($T_a=25^\circ\text{C}$, $I_F=I_{th} + 10$ mA, unless otherwise noted)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_F	CW	-	1.1	1.3	V
Threshold current	I_{th}		-	5	15	mA
Fiber end output	P_F	CW	-	1.5	-	mW
Peak emission wavelength	λ_p	CW	1290	1310	1330	nm
Rise/fall times	t_r, t_f	20 to 80 %	-	250	-	ps
Monitor current (photodiode)	I_m	CW, $V_{RM}=3.5$ V	-	0.4	-	mA
Dark current (photodiode)	I_D	$V_{RM}=3.5$ V	-	-	100	nA

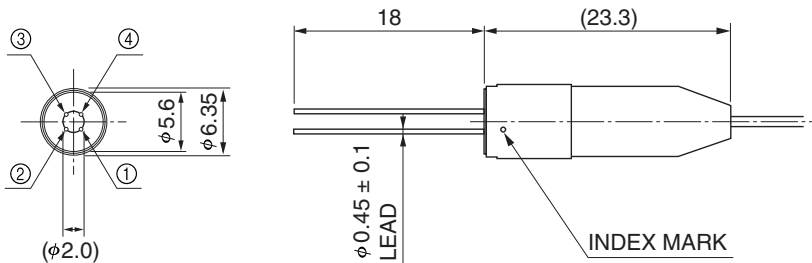
■ Package lineup

Configuration		L8958			
		-11	-12	-13	-14
Package	Type	Coaxial			
Fiber	Type	SM (9.5/125) $\phi 0.9$			
	Length	1 m +20 cm/-0 cm			
Connector	Type	SC	FC	MU	LC
	Dimensional outline	①	②	③	④

■ Dimensional outlines (unit: mm, tolerance unless otherwise noted: ± 0.2)

Package

① Coaxial



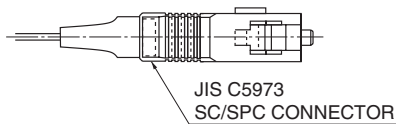
KLEDA0078EA

■ Pin connection

Pin No.	L8958 series
①	CASE
②	CATHODE (LD)
③	ANODE (PD)
④	CATHODE (PD) ANODE (LD)

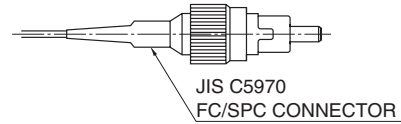
Connector

① SC



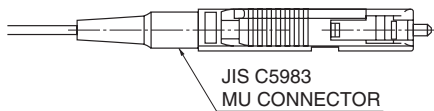
KIRDA0102EA

② FC



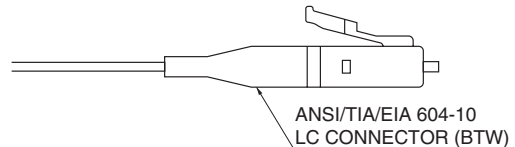
KIRDA0103EA

③ MU



KIRDA0164EA

④ LC



KIRDA0165EA

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