

TTL-3G12-201

1.25Gbps LC Connectorized With Fiber Stub 1310nm FP Laser Diode

FEATURES:

- Pre-aligned LC-type receptacle for optical fiber communication.
- Low threshold current and low operating current.
- Support from DC to 2.5Gbps data rate operation.
- Common anode pinout.



ELECTRO-OPTICAL CHARACTERISTICS: ($T_A = 25^\circ\text{C}$, unless otherwise specified)

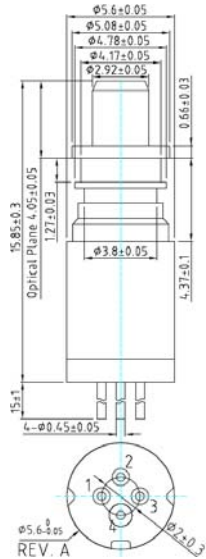
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Threshold Current	I_{th}	6	10	13	mA	CW
Forward Voltage	V_F		1.1	1.6	V	CW, $I_F = I_{th} + 20\text{mA}$
Slope Efficiency	η	0.01	0.0175	0.025	mW/mA	CW, $I_F = I_{th} + 20\text{mA}$
Optical Output Power	P_F	200	350	500	μW	CW, $I_F = I_{th} + 20\text{mA}$
Rise / Fall time(20%~80%)	tr/ta		130	400	ps	$I_F = I_{th} + 20\text{mA}$, @1244.16Mbps
Wavelength	λ_P	1290	1310	1330	nm	CW, $I_F = I_{th} + 20\text{mA}$
Spectral Width(RMS)	$\Delta\lambda$			3	nm	CW, $I_F = I_{th} + 20\text{mA}$, @-20dB, K=1
PD Monitor Current	I_M	100		800	μA	CW, $I_F = I_{th} + 20\text{mA}$, $V_R = 1\text{V}$
PD Dark Current	I_D			0.1	μA	$V_R = 5\text{V}$
PD Capacitance	C_M		2.6	10	pF	$V_R = 5\text{V}$, $f = 1\text{MHz}$

ABSOLUTE MAXIMUM RATINGS:

PARAMETERS	MIN	MAX	UNIT	TEST CONDITIONS
Storage Temperature	-40	100	$^\circ\text{C}$	
Operating Temperature	-40	85	$^\circ\text{C}$	
Lead Solder Temperature		260	$^\circ\text{C}$	10 seconds
LD Reverse Voltage		2	V	
PD Reverse Voltage		20	V	

OUTLINE DIMENSIONS:

• Unit: mm



Pinout:

Pin no.	TTL-3G12-201
	Function(CA)
1	LD Cathode
2	PD Anode
3	LD Anode / PD Cathode
4	Case