



CWDM (1270nm~1610nm) DFB Pulse laser module

GTA1003

Features

- Advanced Multiple Quantum Well (MQW) laser
- Distributed Feedback (DFB) Laser Design
- High output power
- Pulse width (PW) =10μs, Duty=1%

Application

- Light Source
- Sensor
- Data Transmit
- OTDR



1 Absolution Maximun Ratings (Tc=25℃.unless otherwise specified)

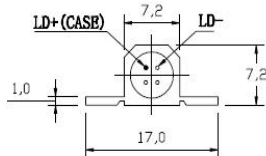
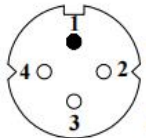
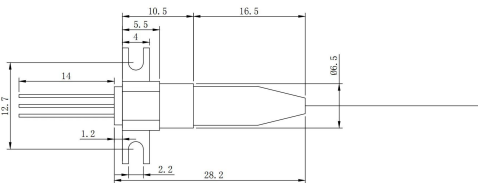
Parameters	Symbol	Min.	Max.	Unit	Test Condition
Pulsed Forward Current	I _{FP}	-	500	mA	-
Reverse Voltage (Laser diode)	V _{RL}	-	2	V	CW,25 ℃
Operating Temperature	Top	-20	+60	℃	-
Storage Temperature	Tstg	-40	+85	℃	-
Soldering Temperature/Time	-	260/10		℃/S	-
Relative Humidity (noncondensing)	RH	85		%	-

2 Specifications (electrical & optical characteristics,Tc=25℃)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	V _{FP}			4.0	V	IFP ≤ 350mA, PW=10us,Duty=1%
Optical Output Power	P _O	30	-	-	mW	1270nm~1490nm, IFP≤ 250mA, Pw=10us, Duty= 1%
						1510nm~1610nm, IFP≤ 350mA, Pw=10us, Duty= 1%
Threshold Current	I _{th}		10	20	mA	Pfcw = 2mW, Vrm = 2V
Center Wavelength	λ _C	1290	1310	1330	nm	Rms (-20 dB),IFP=350mA, Pw=10us,Duty= 1%
		1530	1550	1570		
		λ _c -3	λ _c	λ _c +3		* O+S+C+L
Spectral Width (-20 dB)	Δλ	-	0.5	1	nm	CW, 25℃ ,I _{th} + 20mA
Spectral Width	σ			5.0	nm	RMS(-20dB), IFP=1200mA, PW=10us.Duty=1% Tc= 0℃ to + 60℃
Rise Time/ Fall Time	T _R /T _F	-	0.3	0.7	ns	10-90% . 90-10%
Monitor Dark Current	I _D	-	-	200	nA	V _{rpd} = 5 V
Tracking Error	ER	-1.0	-	1.0	dB	I _m hold@Po=1mW, 25℃ ,CW Tc=-45℃ ~ +85℃

3 Dimensions(mm)

Pin Assignment





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Order Information

Pulse laser series

Please let us know

- 1: wavelength
- 2: output power
- 3: fiber type
- 4: connector
- 5: with flange or not

For
example



Part No.	Description
GTA100327	1270nm pulse laser with flange
GTA100327N	1270nm pulse laser without flange
GTA1003279	1270nm pulse laser with flange,SMF FC/APC
GTA100327N9	1270nm pulse laser without flange,SMF FC/APC
GTA1003278	1270nm pulse laser with flange,SMF FC/PC
GTA100327N8	1270nm pulse laser without flange,SMF FC/PC
and so on	



Please let us know your request details before order.
* * If you have your own Pin Assignment request .
Kindly share it with us before order .



Customize for you

