

Butterfly Laser Diode Mount

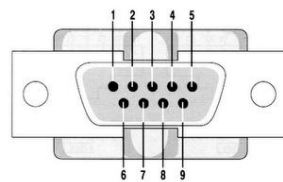
Features

The LDM-BTY-T2 laser diode mount is designed for use with type2 laser in 14-pin butterfly package. The LDM-BTY-T2 features a small footprint heat sink that do not require forced convection for most Laser diode. The mount features a single 9-pin D-sub female connector to allow quick and simple connectivity and a bias-T for modulation.

Specifications

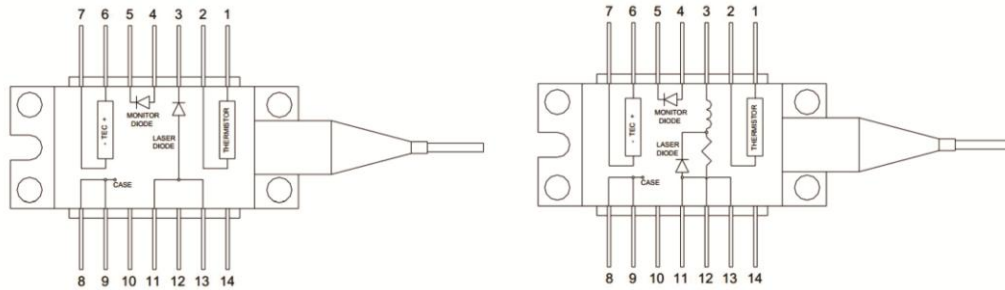
Polarity of LD	AG/CG
Polarity of PD	Floating
Maximum TEC current	3A

Pin Diagram



1	LD Anode (+)
2	LD Cathode (-)
3	Case Ground
4	TEC (-)
5	TEC (+)
6	PD Anode (+)
7	PD Cathode(-)
8	Thermistor
9	Thermistor

Pin Assignment



1	Thermistor
2	Thermistor
3	LD Cathode (-)
4	PD Anode (+)
5	PD Cathode (-)
6	TEC (+)
7	TEC (-)
8	Case Ground
9	Case Ground
10	NC
11	LD Anode (+)
12	Modulation
13	LD Anode (+)
14	NC

Installation

laser diode produce heat in order to maintain constant temperature a TEC is integrated into the 14-pin butterfly package. to utilize the TEC make sure to have good thermal contact between the 14-pin butterfly package and the LDM-BTY-T2 supplied heat sink. The use of thermal interface material between the package and the heat sink is strongly recommended. a good quality thermal grease or thermal interface pad can be used for this purpose.

After applying a heat conductor between the laser package and the heat sink the package should be mounted into LDM-BTY-T2. laser diode may be damaged by ESD, make sure to take precaution and work in ESD safe environment. The package should be secured to the heat sink using 4 screws. The screws should be tightened evenly in two stage. The package

can be permanently distorted and damaged if the screws are tightened unevenly or over tightened.

Use the jumper when the laser diode is disconnected to protect from damage.