

For current pricing, please see our website.

CHAPTERS

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Drivers/Mounts

Accessories

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- Laser Diode Controllers
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LD Mounts

LED Drivers

LED Mounts

Universal Butterfly Mount



LM14S2

The LM14S2 Butterfly Mount is designed to operate all lasers and two-port electro-optic devices in a 14-pin butterfly package. The top surface includes heat sink fins and a recessed region to mount the laser diode, resulting in a very low-profile package. The LM14S2 includes a laser diode TEC lockout feature, which disables the laser when the TEC controller is not active.† This mount is designed to allow up to 5 A of laser current and 5 A of TEC current. It also provides a

Zero Insertion Force (ZIF) Socket, a remote interlock connection, and an LED to indicate when the laser diode is enabled.

This package comes with two adapter cards, each plugging into the connector at the bottom of the mount (see section below for details). A Bias-T Adapter is also included with the product, allowing for RF modulation of butterfly lasers specifically designed with this capability. The LM14S2 is pin-for-pin compatible with all Thorlabs' Benchtop Laser Diode Controllers (see pages 1436 - 1439), eliminating the need for custom-made interface cables.

† TEC lockout, which is easily bypassed if not required, only functions with Thorlabs' lasers and TEC controllers (see pages 1436 - 1480). The TEC controller requires that the laser package has an integrated TEC and thermal sensor.

PARAMETER	VALUE
Maximum Laser Current	5 A
Polarity of Laser Diode	AG
Polarity of Monitor Diode	Floating
Maximum TEC Current	5 A
Temperature Sensor	Thermistor
Temperature Range*	0 to 70 °C
Temperature Coefficient of Heat Sink	3 °C/W
Dimensions	3.5" x 3.5" x 1.25" 88.7 mm x 88.9 mm x 31.8 mm

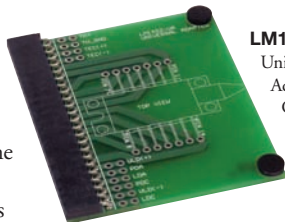
*At 25 °C with 2 A TEC current, integrated into laser package. Laser Diode dependent.



LM14S2
Shown with a Two Port
Electro-Optic Device

Adapter Cards for Custom PIN Configuration

The LM14S2 eliminates the restriction of fixed pin configurations by using swappable configuration cards that plug into a connector located on the bottom of the mount. Two cards are included with the LM14S2. One card is pre-configured for both Type 1 and Type 2 lasers. The second card is a user-configurable card (LM14S2-UA) designed to allow custom wiring of the mount.

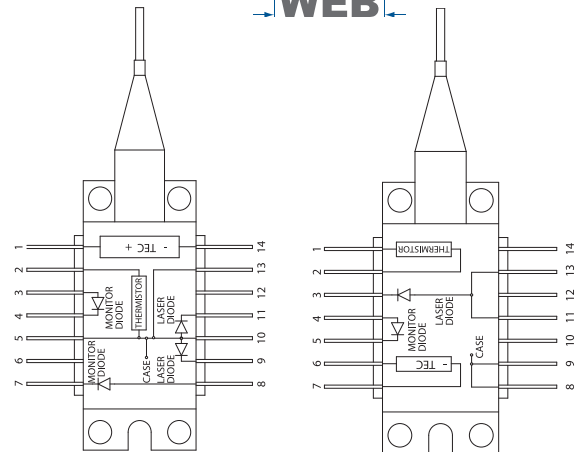


LM14S2
Universal
Adapter
Card

Features

- Compatible with all Commercially Available Laser Modules and Two-Port Electro-Optic Devices in 14-Pin Butterfly Packages
- Zero Insertion Force (ZIF) Sockets
- Compatible with Thorlabs' Laser Diode and TEC Controllers (See Pages 1436 - 1480)
- Compact, Low-Profile Design
- TEC Lockout Protection Circuit

Mechanical
Drawings Available on the
WEB



Type 1
Pump Laser Diode*

Type 2
Telecom Laser Diode*

*View shows alternate locations for monitor and laser diodes

PIN #	CONNECTOR (TYPE 1)	CONNECTOR (TYPE 2)
1	TEC Anode	Thermistor Ground
2	Thermistor	Thermistor
3	PD Anode	LD Cathode (DC)
4	PD Cathode	PD Anode
5	Thermistor Ground	PD Cathode
6	N.C.	TEC Anode
7	PD Cathode	TEC Cathode
8	PD Anode	LD Anode, Ground
9	LD Cathode	LD Anode, Ground
10	LD Anode, Ground	N.C.
11	LD Cathode	LD Anode, Ground
12	N.C.	LD Cathode (RF)
13	LD Anode, Ground	LD Anode, Ground
14	TEC Cathode	N.C.

ITEM #	\$	£	€	RMB	DESCRIPTION
LM14S2	\$ 324.00	£ 233.28	€ 281.88	¥ 2,582.28	Universal 14-Pin Butterfly Laser Diode Mount
LM14S2-UA	\$ 29.00	£ 20.88	€ 25.23	¥ 231.13	LM14S2 Universal Adapter Card for Custom Pin Configuration