DATA SHEET

EYP-MNT-0000-00000-0000-CLP01-9000

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eadle

Revision 0.90 2013-08-26 page 1 of 3 ColdPack Image: ColdPack Image: ColdPack Image: ColdPack TO-3 Adapter with integrated Image: ColdPack Image: ColdPack

Thermoelectric Cooler

General Product Information

Product	Application
Mount for Thermal Control of Laser Diodes	Cooling
- with integrated Thermoelectric Cooler and Thermistor	Temperature Control
- for Laser Diodes with standard 9 mm (or 5.6 mm*) TO package	Wavelength Tuning
- Product does not include Laser Diode or Temperature Controller	
*) with optional TO-56 Adaper Ring (see Order Codes on p. 3)	

Characteristics

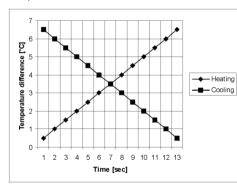
	Symbol	Unit	min	typ	max
Storage Temperature	Ts	°C	-40		85
Operational Temperature at Laser Case	T _{LD}	°C	0		50
Current	I _F	А			1.2
Voltage	V _R	V			17.2

Thermistor (Standard NTC Type)

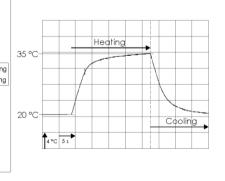
Parameter	Symbol	Unit	min	typ	max
Resistance	R ₀	kΩ		10	
Beta Coefficient	β			3895	

Typical Measurement Results

Temperature Scan



Temperature Response





Measurement Conditions / Comments

 $T_{ColdPack case} = 25^{\circ}$ C, heat load Qmax = 11.2 W

Stress in excess of the maximum ratings can cause permanent damage to the device

Measurement Conditions / Comments $R = R_0 \exp (\beta/T - \beta/T_0)$ Reference Temperature $T_0 = 298$ K

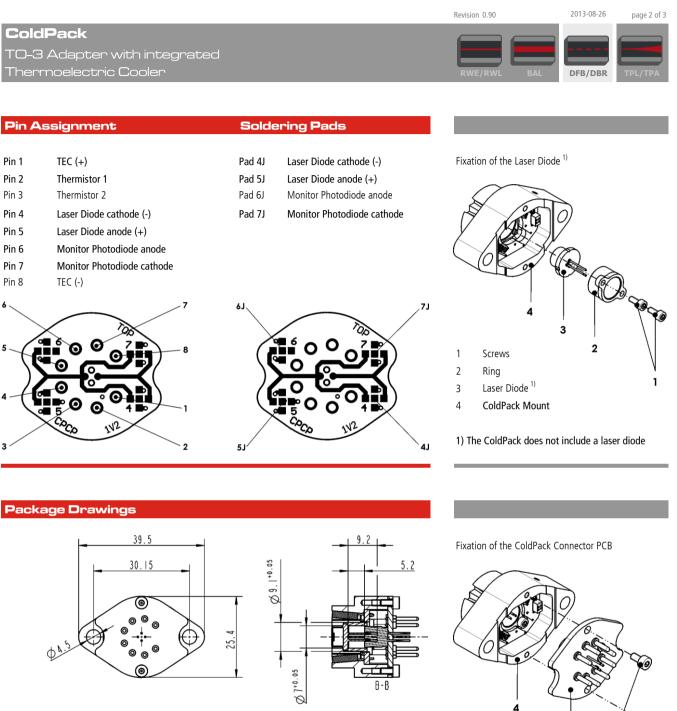
Performance figures, data and any illustrative material provided in this specification are typical and must be specifically confirmed in writing by eagleyard Photonics before they become applicable to any particular order or contract. In accordance with the eagleyard Photonics policy of continuous improvement specifications may change without notice.

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Contact surface for heat sink



4 ColdPack Mount

5

5 Screws

6 Connector PCB

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ColdPack				
TO-3 Adapter with integrated				
Thermoelectric Cooler	RWE/RWL BAL	DFB/DBR T	PL/TPA	
Product Content				
Product	Comment			
ColdPack Assembly (includes parts shown on p. 2 except the laser diode)				
1 Set of Cables (Length: 210 mm)				
2 Allen Screws (M2.5 x 16)	can be used alternatively to the M2.5 screws			
2 Allen Screws (M3 x 16)	can be used alternatively to the M3 screws			
2 Belleville Washers				
2 Washers				
Order Code Scheme				
Product	Order Code			
ColdPack	EYP-MNT-0000-00000)-0000-CLP01-9000		
Adapter Ring for Laser Diode 5.6 to 9 mm (optional)	EYP-MNT-0000-00000			
Integration of Laser Diode into ColdPack (optional)	EYP-MNT-0000-00000)-0000-CLP01-9100		