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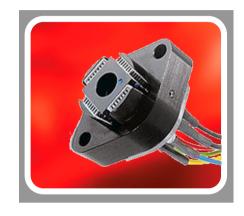
ColdPack

TO-3 Adapter with integrated 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	T_S	°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

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

Thermistor (Standard NTC Type)

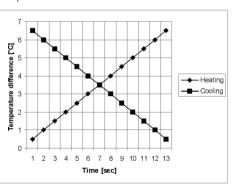
Parameter	Symbol	Unit	min	typ	max
Resistance	R_0	kΩ		10	
Beta Coefficient	β			3895	

Measurement Conditions / Comments

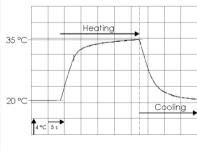
 $R = R_0 \exp (\beta/T - \beta/T_0)$ Reference Temperature $T_0 = 298 \text{ K}$

Typical Measurement Results

Temperature Scan



Temperature Response



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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TO-3 Adapter with integrated Thermoelectric Cooler

RWE/RWL BAL

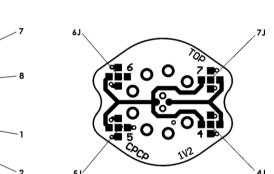


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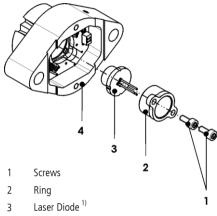
Pin Assignment

Pin 1	TEC (+)	Pad 4J	Laser Diode cathode (-)
Pin 2	Thermistor 1	Pad 5J	Laser Diode anode (+)
Pin 3	Thermistor 2	Pad 6J	Monitor Photodiode anode
Pin 4	Laser Diode cathode (-)	Pad 7J	Monitor Photodiode cathode
Pin 5	Laser Diode anode (+)		
Pin 6	Monitor Photodiode anode		
Pin 7	Monitor Photodiode cathode		
Pin 8	TEC (-)		



Soldering Pads

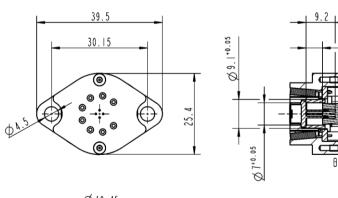
Fixation of the Laser Diode 1)

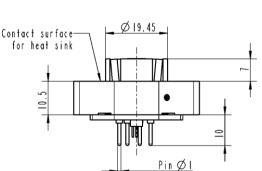


4 ColdPack Mount

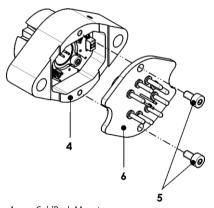
1) The ColdPack does not include a laser diode

Package Drawings





Fixation of the ColdPack Connector PCB



- 4 ColdPack Mount
- 5 Screws
- 6 Connector PCB

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ColdPack
TO-3 Adapter with integrated
Thermoelectric Cooler

Product Content

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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)

2 Allen Screws (M3 x 16)

2 Belleville Washers

2 Washers

Comment

can be used alternatively to the M2.5 screws can be used alternatively to the M3 screws

Order Code Scheme

Product

ColdPack

Adapter Ring for Laser Diode 5.6 to 9 mm (optional) Integration of Laser Diode into ColdPack (optional)

Order Code

EYP-MNT-0000-00000-0000-CLP01-9000 EYP-MNT-0000-00000-0000-CLP01-9020 EYP-MNT-0000-00000-0000-CLP01-9100

Ordering Information:



800 Village Walk #316 Guilford, CT 06437 Ph: 203-401-8093

Email orders to: sales@xsoptix.com Fax orders to: 800-878-7282