## **DATA SHEET**

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

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#### Revision 0.90 2013-08-26 page 1 of 3 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	Ts	°C	-40		85
Operational Temperature at Laser Case	T <sub>LD</sub>	°C	0		50
Current	I <sub>F</sub>	А			1.2
Voltage	V <sub>R</sub>	V			17.2

#### Thermistor (Standard NTC Type)

Parameter	Symbol	Unit	min	typ	max
Resistance	R <sub>0</sub>	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 $T_0 = 298 \text{ K}$

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



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	Revision 0.90 2011-12-13 page 3 of 3		
ColdPack			
TO-3 Adapter with integrated			
Thermoelectric Cooler	RWE/RWL BAL DFB/DBR TPL/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-0000-00000-0000-CLP01-9020		
Integration of Laser Diode into ColdPack (optional)	EYP-MNT-0000-00000-CLP01-9100		