

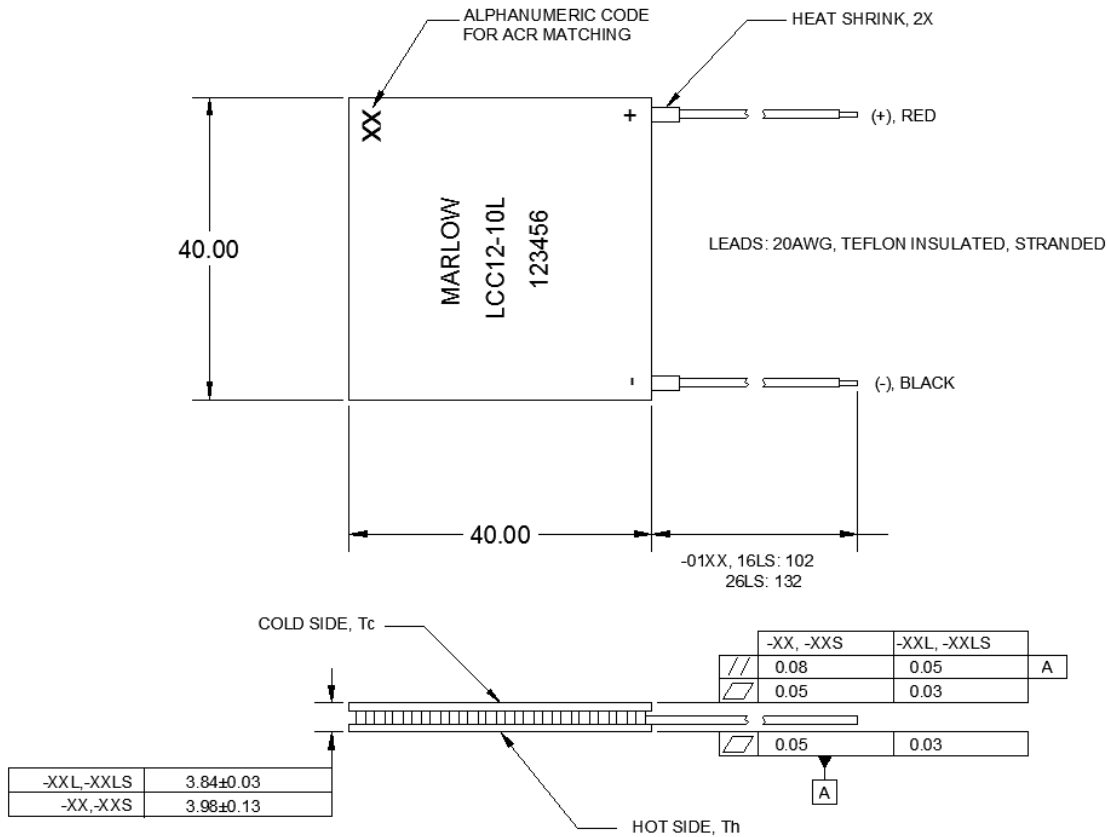
LCC12-10

Single-Stage Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
ΔT_{max} (°C-dry N ₂):	62	70
Q _{max} (watts):	85.0	94.0
I _{max} (amps):	8.9	8.9
V _{max} (vdc):	14.7	16.2
AC Resistance (ohms):	1.32	---

MECHANICAL CHARACTERISTICS



ORDERING OPTIONS

Model Number	Description
LCC12-10-01	Base Model
LCC12-10-01L	Lapped Model
LCC12-10-01S	Sealed Model
LCC12-10-01LS	Lapped and Sealed Model
LCC12-10-16LS	Lapped and Sealed, ACR Matched Set of 6
LCC12-10-26LS	Lapped and Sealed, Long Wires ACR Matched Set of 6

PRODUCT FEATURES

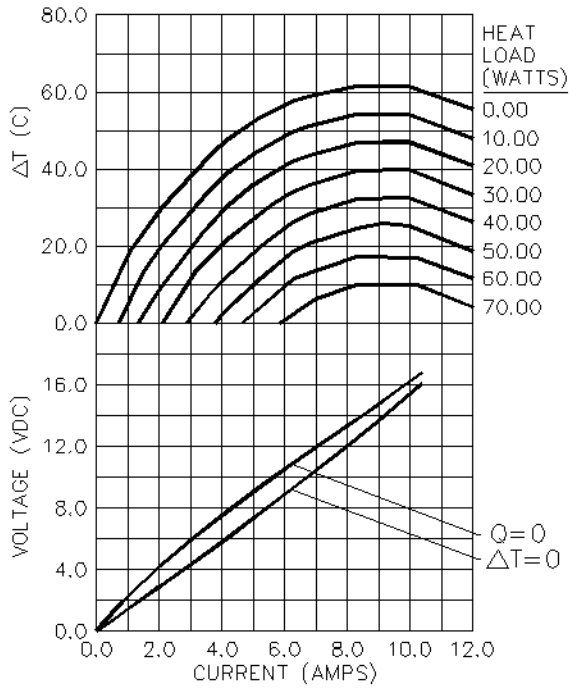
- Rated operating temperature of 130°C.
- Designed for temperature cycling applications.
- Superior nickel diffusion barriers on elements.
- High strength for rugged environment.
- Porch configuration for high strength leadwire connection.
- RTV sealing available.
- Lapped option available for multiple module applications.
- ACR Matched Set using Alphanumeric code available (see page 2).

LCC12-10-16LS & 26LS ACR Matching Table			
Alphanumeric code	ACR (ohms)		
	Greater Than	Less Than or Equal to	Matching Range (max - min)
A0	1.137	1.147	0.010
A1	1.147	1.157	0.010
A2	1.157	1.167	0.010
A3	1.167	1.177	0.010
A4	1.177	1.187	0.010
A5	1.187	1.197	0.010
A6	1.197	1.207	0.010
A7	1.207	1.217	0.010
A8	1.217	1.227	0.010
A9	1.227	1.237	0.010
B0	1.237	1.247	0.010
B1	1.247	1.257	0.010
B2	1.257	1.267	0.010
B3	1.267	1.277	0.010
B4	1.277	1.287	0.010
B5	1.287	1.297	0.010
B6	1.297	1.307	0.010
B7	1.307	1.317	0.010
B8	1.317	1.327	0.010
B9	1.327	1.337	0.010
C0	1.337	1.347	0.010
C1	1.347	1.357	0.010
C2	1.357	1.367	0.010
C3	1.367	1.377	0.010
C4	1.377	1.387	0.010
C5	1.387	1.397	0.010
C6	1.397	1.407	0.010
C7	1.407	1.417	0.010
C8	1.417	1.427	0.010
C9	1.427	1.437	0.010
D0	1.437	1.447	0.010

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN

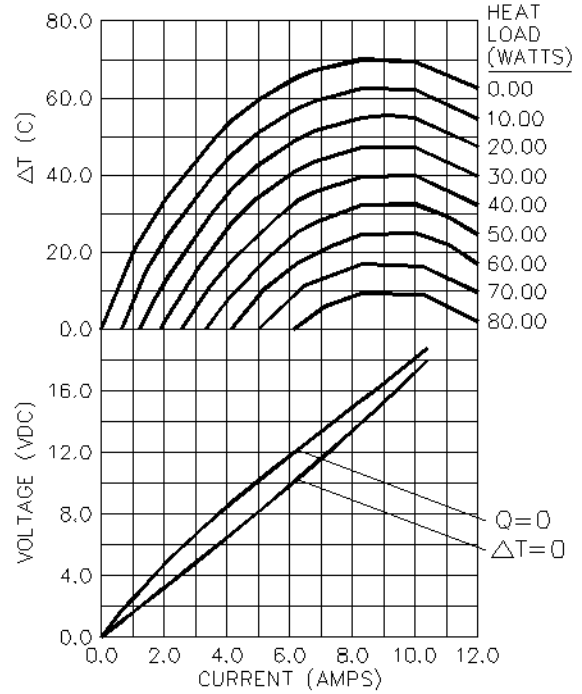
Hot Side Temperature 27°C

TA(C)= 27



Hot Side Temperature 50°C

TA(C)= 50



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.

Installation

Recommended mounting method: Clamp with uniform pressure to a flat surface with thermal interface material. For additional information, please refer to our TEC Installation Guide.

Operation Cautions

For maximum reliability, storage and operation below 130°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

CONTACT US:

For customer support or general questions please contact a local office below or visit our website at www.marlow.com.

Marlow Industries, Inc.
 10451 Vista Park Road
 Dallas Texas 75238-1645
 214-340-4900 (tel)
 214-341-5212 (fax)
 877-627-5691 (tech support)
www.marlow.com

Marlow Industries Europe GmbH
 Brunnenweg 19-21
 64331 Weiterstadt
 Germany
 Tel.: +49 (0) 6150 5439 - 403
 Fax: +49 (0) 6150 5439 - 400
info@marlow-europe.eu

II-VI Japan Inc.
 WBG Marive East 17F
 2-6 Nakase, Mihama-ku
 Chiba-Shi, Chiba 261-7117
 Japan
 81 43 297 2693 (tel)
 81 43 297 3003 (fax)
center@ii-vi.co.jp
www.ii-vi.co.jp

II-VI Singapore Pte., Ltd.
 Blk. 5012, Techplace II
 #04-07 & 05-07/12, Ang Mo Kio Ave. 5
 Singapore 569876
 (65) 6481 8215 (tel)
 (65) 6481 8702 (fax)
info@ii-vi.com.sg
www.ii-vi.com.sg

Marlow Industries China, II-VI
 Technologies Beijing
 A subsidiary of II-VI Incorporated
 Rm 202, 1# Lize 2nd Middle Road
 Wangjing, Chaoyang District
 Beijing 100102 China
 010-64398226 ext 105 (tel)
 010-64399315 (fax)
info@iivibj.com