

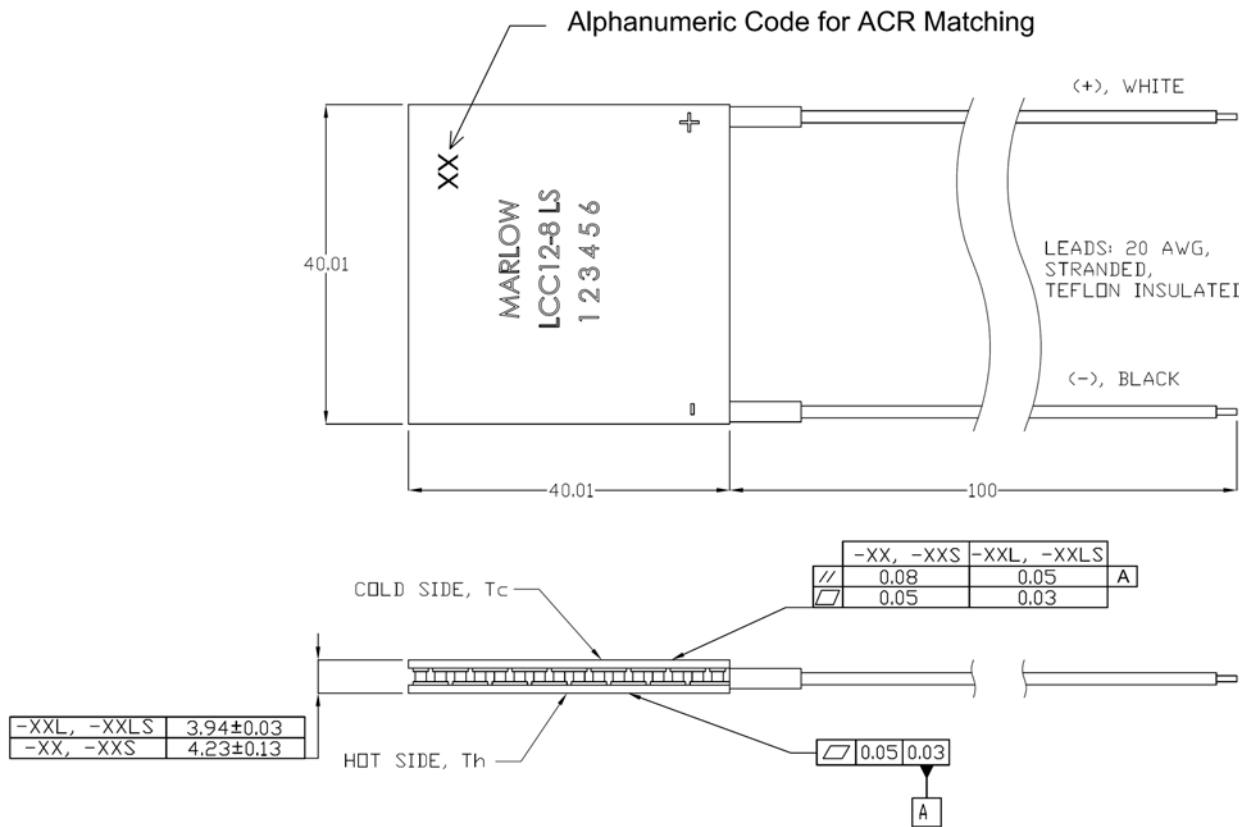
## LCC12-8

Single-Stage Thermoelectric Cooler  
RoHS EU Compliant

### TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
$\Delta T_{max}$ (°C-dry N <sub>2</sub> ):	66	74
Q <sub>max</sub> (watts):	71	78
I <sub>max</sub> (amps):	7.4	7.4
V <sub>max</sub> (vdc):	14.7	16.4
AC Resistance (ohms):	1.6	---

### MECHANICAL CHARACTERISTICS



### ORDERING OPTIONS

Model Number	Description
LCC12-8-01	TEM Assembly, Base Model
LCC12-8-01L	TEM Assembly, Lapped Model
LCC12-8-01S	TEM Assembly, Sealed Model
LCC12-8-01LS	TEM Assembly, Lapped and Sealed Model
LCC12-8-16LS	TEM Assembly, -01LS ACR Matched set of 6

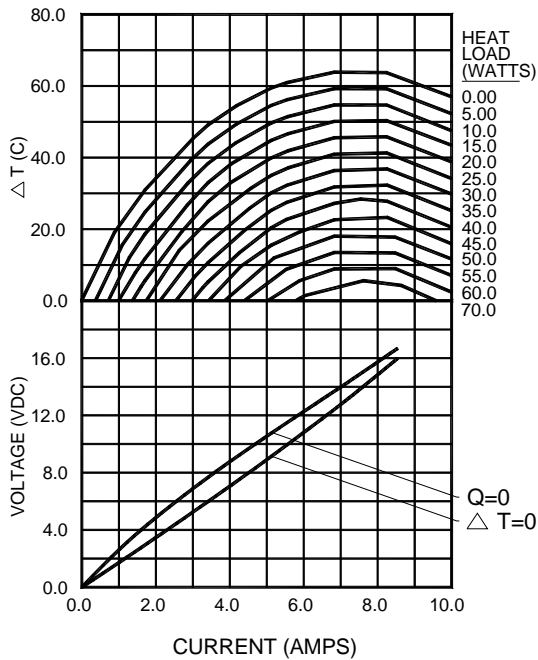
### PRODUCT FEATURES

- 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).

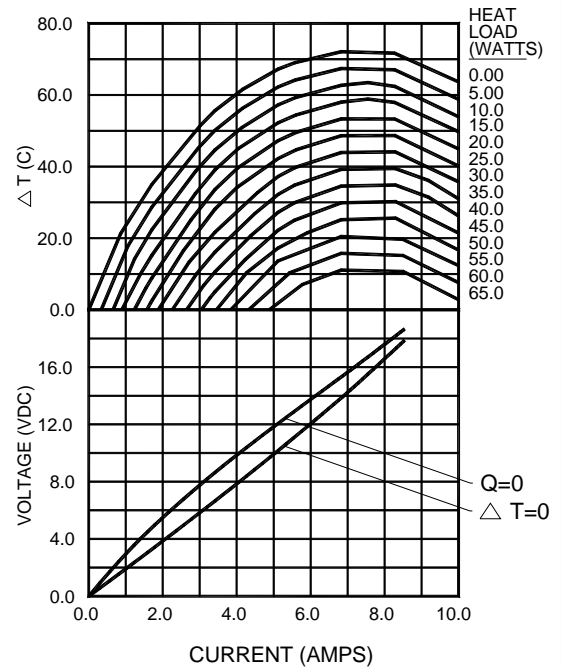
ACR Specification @ 23°C			
	Min (ohms)	Max (ohms)	Matching Range (max - min)
	1.450	1.780	0.010
LCC12-8 ACR Matching Table			
Alphanumeric Code	ACR (ohms)		
	Greater than	Less than or equal to	Matching Range (max - min)
A0	1.450	1.460	0.010
A1	1.460	1.470	0.010
A2	1.470	1.480	0.010
A3	1.480	1.490	0.010
A4	1.490	1.500	0.010
A5	1.500	1.510	0.010
A6	1.510	1.520	0.010
A7	1.520	1.530	0.010
A8	1.530	1.540	0.010
A9	1.540	1.550	0.010
B0	1.550	1.560	0.010
B1	1.560	1.570	0.010
B2	1.570	1.580	0.010
B3	1.580	1.590	0.010
B4	1.590	1.600	0.010
B5	1.600	1.610	0.010
B6	1.610	1.620	0.010
B7	1.620	1.630	0.010
B8	1.630	1.640	0.010
B9	1.640	1.650	0.010
C0	1.650	1.660	0.010
C1	1.660	1.670	0.010
C2	1.670	1.680	0.010
C3	1.680	1.690	0.010
C4	1.690	1.700	0.010
C5	1.700	1.710	0.010
C6	1.710	1.720	0.010
C7	1.720	1.730	0.010
C8	1.730	1.740	0.010
C9	1.740	1.750	0.010
D1	1.750	1.760	0.010
D2	1.760	1.770	0.010
D3	1.770	1.780	0.010

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN

Hot Side Temperature 27°C



Hot Side Temperature 50°C



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 methods: 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](http://www.marlow.com).

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