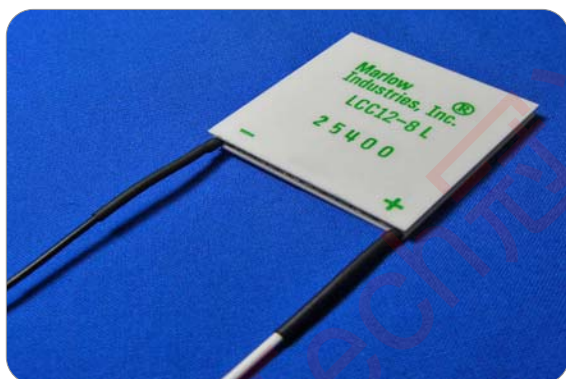




marlow industries, inc.®
Subsidiary of II-VI INCORPORATED

TECHNICAL DATA SHEET



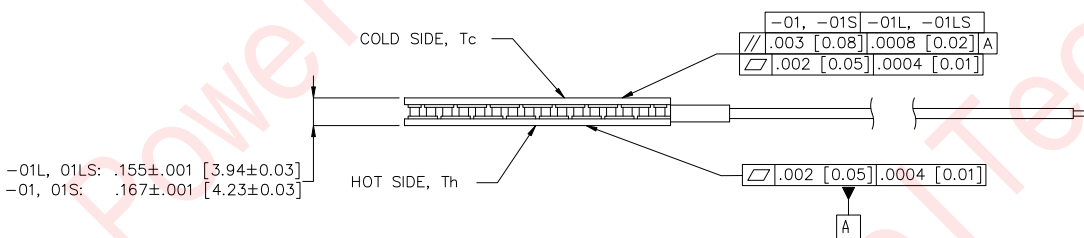
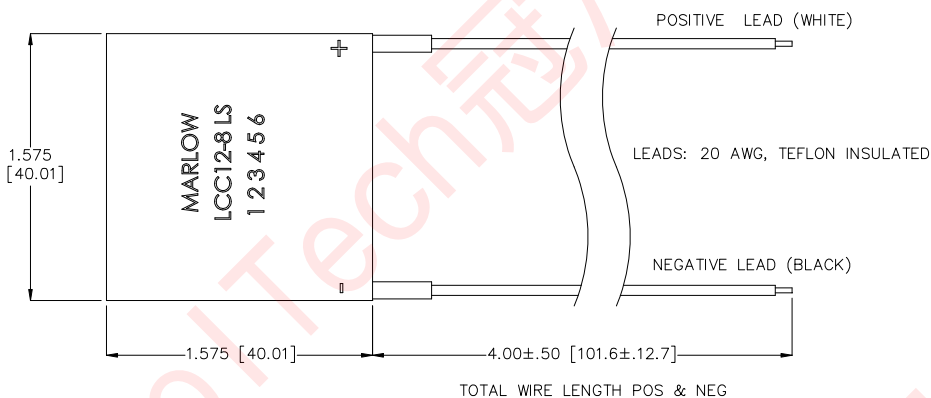
LCC12-8

Single-Stage Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N ₂):	66	74
Qmax (watts):	71	78
Imax (amps):	7.4	7.4
Vmax (vdc):	14.7	16.4
AC Resistance (ohms):	1.6	---

MECHANICAL CHARACTERISTICS



ORDERING OPTIONS

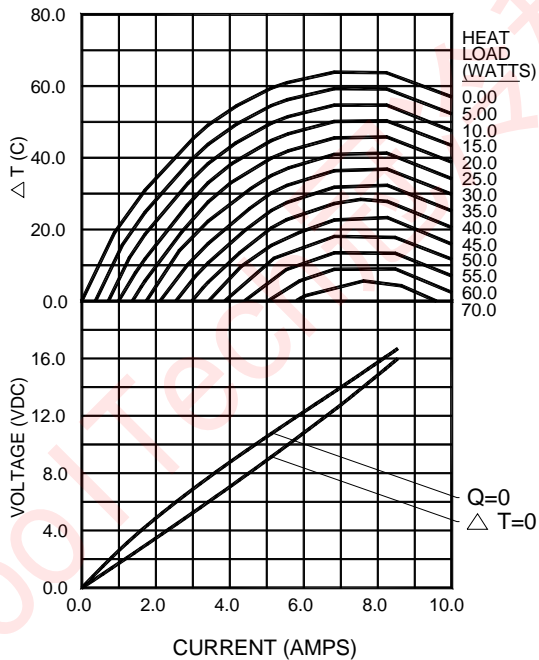
Model Number	Description
LCC12-8-01	TEM Assembly, Base Model w/ leads
LCC12-8-01L	TEM Assembly, Lapped Model
LCC12-8-01S	TEM Assembly, Sealed Model
LCC12-8-01LS	TEM Assembly, Lapped and Sealed Model
LCC12-8-16LS	TEM Assembly, -.01LS Matched set of 6

AVAILABLE MODIFICATIONS

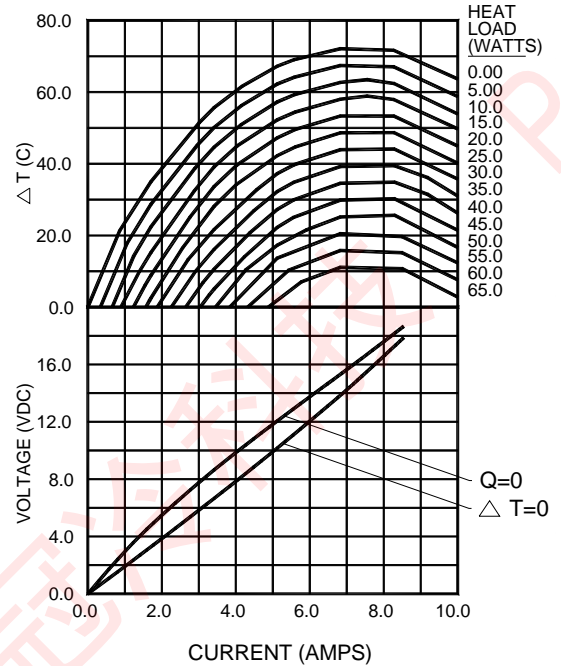
Solid-state reliability.
Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°C).
Superior nickel diffusion barriers on elements.
High strength for rugged environment.
RTV sealing available (Optional).
Lapped option available for multiple module applications.

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, consult one of our Applications Engineers.

Installation

Recommended mounting methods: Bonding with thermal epoxy or soldering with metallized ceramics. For additional information, please refer to our TEC Installation Guide.

Operation Cautions

For maximum reliability, storage and operation below 85°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 consult our website for distributor information.

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