• One piece tube construction eliminates epoxy joints and dissimilar metals in the liquid loop.
• Tubing is made of 316 stainless steel tubing which permits use with a wide variety of liquids.
• Aluminum base plate provides high heat conduction.
• 3/8 inch (9.65 mm) OD tubing accepts a wide variety of compression fittings.
• Can be used with a standard cold plate cooler. Through-holes are located for mounting directly to the CP-061HT, CP-065, the CP-110, or the CP-121HT cold plate cooler, or for mounting one or two directly to the CP-200 Series cold plate coolers.
• RoHS compliant.
If you intend to use a fluid other than water with the LC-SSX1, consult with TE Technology, Inc. for further design assistance. You should also verify fluid compatibility with 316L stainless steel and with any associated fittings.

- **Maximum fluid pressure:** 1034 kPa
- **Weight:** 0.46 kg
- If you intend to mount the LC-SSX1 to a TE Technology, Inc. standard cold plate cooler, an M4 x 0.7 20 mm long screw with an M4 washer is recommended. Use 4 screws and torque each screw to 1.3 N-m. Use thermal grease or other suitable thermal interface material between the cold plate and LC-SSX1.

*Please review the Thermoelectric Cooling Assembly (TCA) Instruction Manual (or manual in other languages), ordering information, and FAQ’s for related technical information before purchasing or using this product.*

If you intend to use a fluid other than water with the LC-SSX1, consult with TE Technology, Inc. for further design assistance. You should also verify fluid compatibility with 316L stainless steel and with any associated fittings.

The LC-SSX1 should be oriented so that if a leak were to occur, fluid would spray/drain away from electrical contact points.

Water expands when freezing! Do not allow water or other similarly behaving fluids to freeze in the LC-SSX1; otherwise, damage could result.
NOTE: The calculated thermal resistance curve is based on the assumption that the heat load is evenly spread across the plate surface.
The calculated performance curves below are based on the LC-SSX1 being mounted to a TE Technology standard cold plate cooler. The following assumptions apply:

1. Thermal grease, TP-1, (see accessories at http://tetech.com/) is used between the cold plate and the LC-SSX1 (0.04 mm thick layer)
2. Water is flowing at 1.6 L/min through the LC-SSX1

Please also note that the dashed lines on certain portions of the graph represent points where the cooler should not be operated. Otherwise, damage to the cooler could result.
CP-065 with LC-SSX1

Inlet Temperature (°C) vs. Heat Removed (Watts)
- 25 °C ambient
- 50 °C ambient

CP-110 with LC-SSX1

Inlet Temperature (°C) vs. Heat Removed (Watts)
- 25 °C ambient
- 50 °C ambient