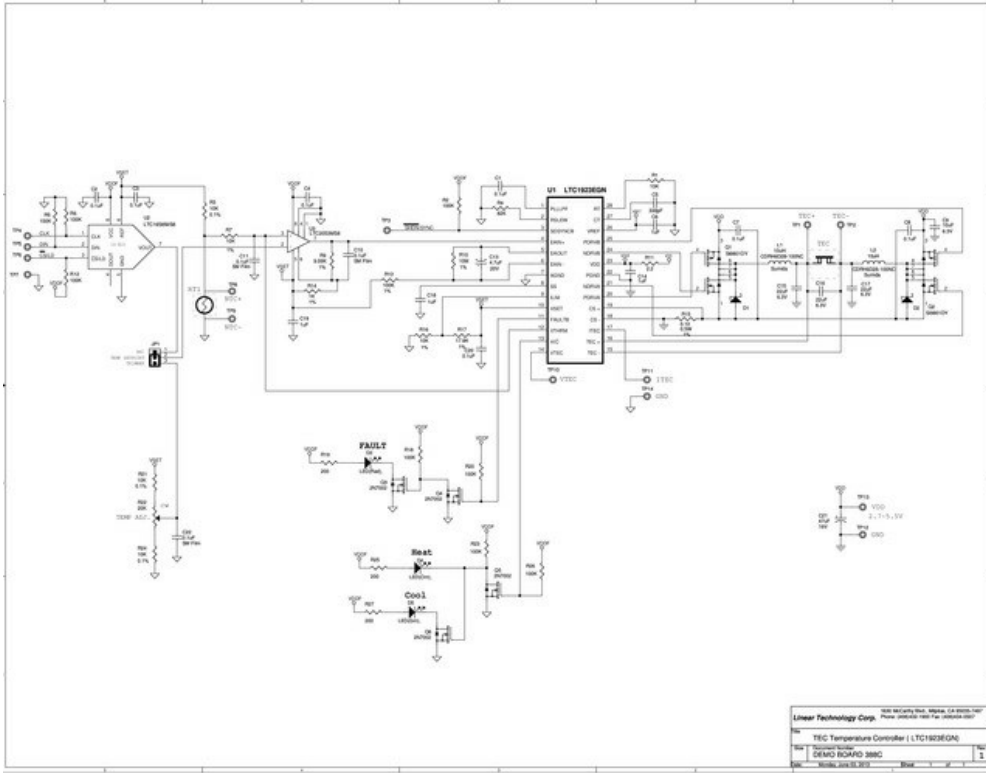


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DC388C - LTC1923EGN | TEC Temperature Controller, 2.7-6.0 Vin

Demonstration circuit DC388 utilizes the LTC1923 thermoelectric cooler (TEC) controller. It provides a complete temperature control solution for TEC based temperature control of fiber-optic lasers. Laser temperature may be controlled at temperatures above or below ambient with set point stability typically well within $.05^{\circ}\text{C}$ over widely varying ambient temperature. Temperature set point is established with a screwdriver driven potentiometer or a 14-bit on-board DAC. Considerably more detail relating to TEC temperature control issues is available in LTC Application Note AN-89, "A Thermoelectric Cooler Temperature Controller for Fiber Optic Lasers." This publication should be reviewed before demo board results are evaluated.



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Demo Board Manual

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Demo Board Schematic

[DC388C - Schematic](#)

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