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C2Or2A-03: FLIR FL-100 Miniature Linear Stirling Cryocooler Development Summary

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FLIR Systems has recently developed and begun manufacturing a miniature linear Stirling cryocooler, the FL-100, which has been designed to meet the needs of compact systems using High Operating Temperature (HOT) detectors. These include low cost, long life, high efficiency, and a very compact packaging size. A compact and efficient drive electronics board, the Cryogenic Cooler Controller (CCC), has also been developed to pair with the FL-100. This paper presents the design specifications of the FL-100 cryocooler and summarizes the results of the testing which has been completed thus far on prototype and early production units.

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