

K562S

INTEGRAL STIRLING LOW POWER MINI MICROCOOLER



Model K562S represents the ultimate miniaturization of RICOR's integral rotary Stirling mini micro coolers. Weighing only 185 grams and consuming less than 3 Watt, this cooler was specially developed to support miniature IR systems where the IR detector operates at temperatures of 95K and above. The basic design concept is based on RICOR's

renowned integral rotary coolers known for their battle proven reliability and ruggedness.

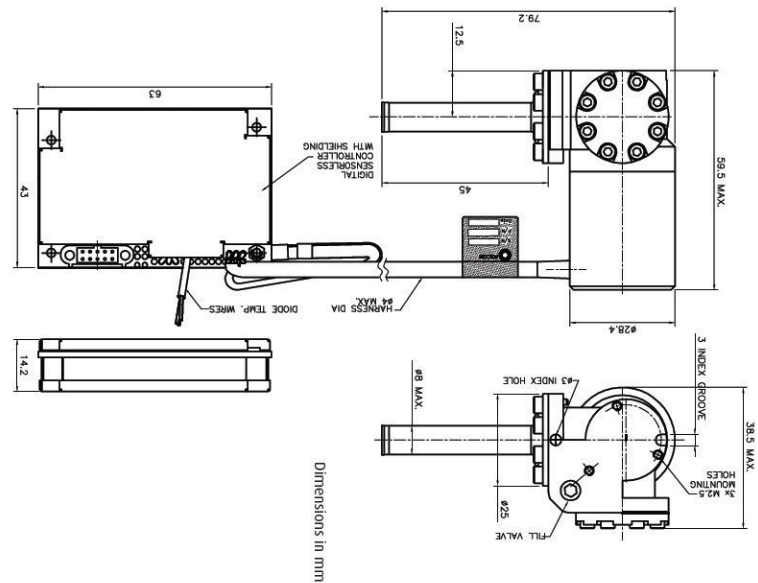
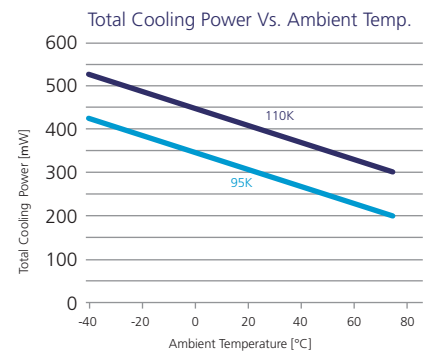
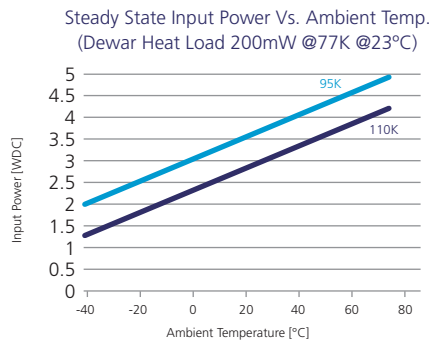
The K562S is driven by a novel digital sensorless controller which excels in low temperature drift and accurate temperature stability.

DETECTORS

Small Format Array
Mid Format Array
HOT FPA $\geq 95K$

APPLICATIONS

Hand Held Thermal Imagers
Thermal Weapon Sights
Miniature Payloads
UAV's



SPECIFICATIONS

• Weight (Without Controller): 185 gr.	• Cooldown Time (160J @110K @23°C): < 4 min. Typ.
• Input Voltage: 12V	• Cooling Capacity:
• Steady State Input Power:	200mW @95K @71°C
(200mW @95K @23°C): < 4.5WDC	300mW @110K @71°C
(150mW @110K @23°C): < 3WDC	• MTTF > 10,000 Hours (Goal)
• Maximum Input Power: 14WDC	• Meets Environmental Conditions per MIL-STD-810
• Ambient Temperature Range: -40°C...+71°C	

Specifications are subject to changes without prior notice.

CONTACTS

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