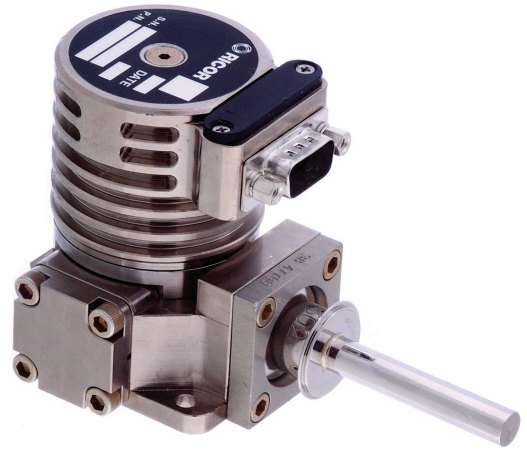


K508N

HIGHLY RELIABLE
INTEGRAL STIRLING
1/2W MICRO COOLER



The K508N is a new member of RICOR's microcoolers family. This model was developed as a high reliability K508 derivative with a goal of increasing cooler reliability above 20,000 operating hours. K508N is ideal for systems' life cycle cost improvement especially for applications operating 24/7 in border surveillance IR systems. The K508N is fully interchangeable with the standard K508 cryocooler and designed to be integrated with all types of K508 cold fingers/DDAs.

The cooler is designed to withstand harsh environmental conditions and excels in low vibration export and low acoustic noise level.

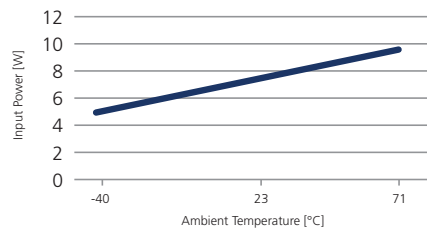
DETECTORS

Small Format Array
Mid Format Array
Large Format Array
Scan Lines TDI

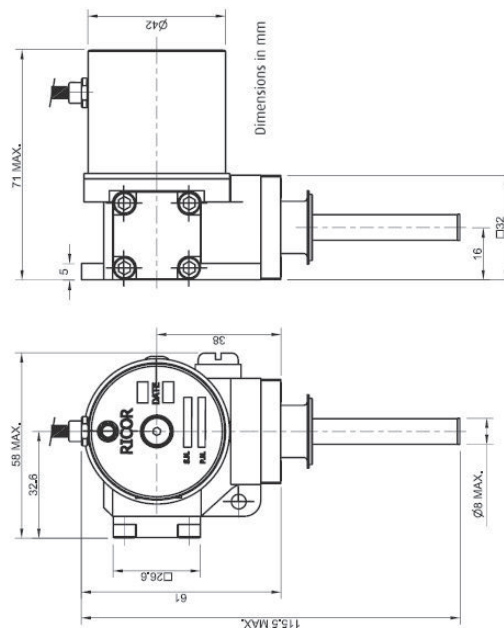
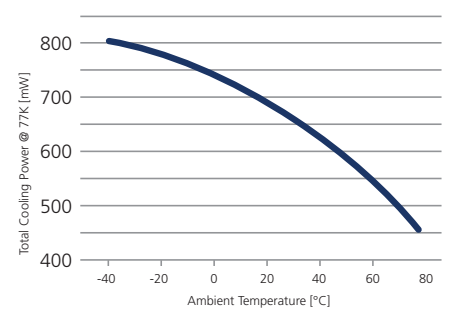
APPLICATIONS

Hand Held Thermal Imagers
Missile Warning Systems
Thermal Weapon Sights
Border Surveillance
UAVs
Field Observations
Observation Payloads
IR Search and Track
Space
Airborne EVS
Thermography
Fire Control Systems - AFV / MBT
Gas Leak Detection
FTIR
Non Destructive Testing

Input Power Vs. Ambient Temperature



Typical Cooling Power @ 77K Vs. Ambient Temp.



SPECIFICATIONS

• Cooler Weight: 470 gr.	• Cooldown Time (250J @77K @23°C): 5 min. Typ.
• Input Voltage: 12-16 or 18-28V	• Cooling Capacity: 500mW @77K @71°C
• Steady State Input Power: 7.5Wdc@220mW, 77K	700mW @77K @23°C
• Maximum Input Power: 18.5Wdc	• MTTF > 20,000 Hours (Goal)
• Ambient Temperature Range: - Operational: -40°C...+85°C	• Meets Environmental Conditions per MIL-STD-810
- Non-Operational: -56°C...+85°C	

Specifications are subject to changes without prior notice.

CONTACTS

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