

K570

SPLIT STIRLING LINEAR CRYOGENIC COOLER



Model K570 is a new member of RICOR's expanding family of Split Stirling Linear Cryogenic Coolers. This model is the smallest and lightest in the range of 1W@80K cryocoolers and delivers required heat lift over the extended range of ambient temperatures from -50°C up to $+85^{\circ}\text{C}$, along with MTTF well in excess of 30,000 hours.

The K570 cryocooler is an ultimate solution for demanding military tactical (MWS, Gen 3, multi-spectral IR sensors, high definition FPAs, etc) and responsive space programs, where weight, size, power consumption, heat sinking, reliability, flexibility in system design, vibration export and aural stealth are of concern.

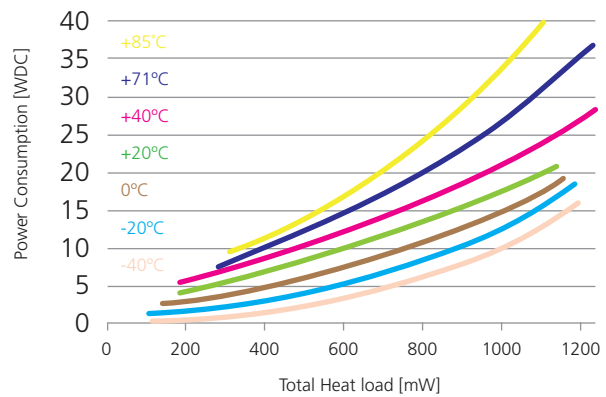
DETECTORS

Mega Pixel Array
QWIP 65÷70 Kelvin
Dual Band/Color

APPLICATIONS

Missile Warning Systems
Border Surveillance

Load curves at different ambient temperatures



SPECIFICATIONS

• Cooler Weight: 800 gr.	• Power consumption at typical heat lift 1W@80K@23C: 25W DC
• Controller Weight: 130gr.	• Local temperature stability: ±0.2K
• Weight of optional TDA: 150 gr.	• Temperature drift: ±0.5K
• Input voltage: 18-32V	• Ambient temperature range: -50°C...85°C
• Maximum power consumption: 45WDC	• Vibration export with TDA
• Maximum heat lift at 80K@85°C at maximum power consumption: 1100 mW	at driving frequency*: <2.5 N rms
• MTTF 30,000 Hours (Goal)	* cooler is mounted upon frame weighting less than 3kgf

Specifications are subject to changes without prior notice.

CONTACTS

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