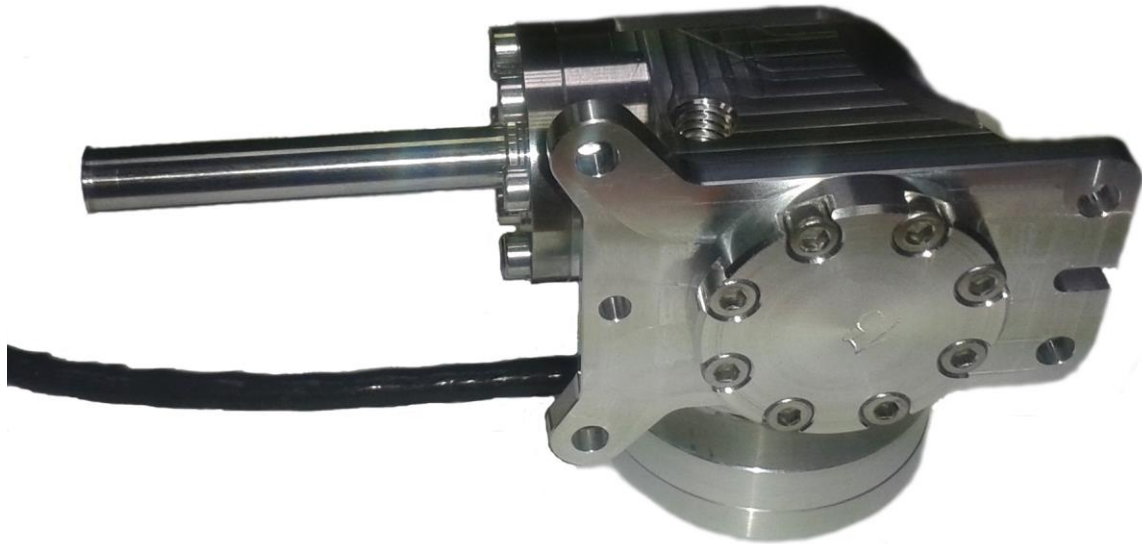


INTEGRAL STIRLING COOLER – SRI421 (0.25W@80K) – NoF- Arb00-Cab-12V

The SRI421 Stirling cooler is intended for use in Infra-Red applications, especially where low weight is needed (UAV or handheld IR cameras).



New Integral rotary Stirling cryocooler model SRI421 was developed for this kind of applications with an aim of a long time (MTTF) and a small power consumption and low acoustic noise.

Rotary Motor windings are outside of the working gas. Digital electronic driver and temperature controller are on separate board and they are fully programmable via RS232 port for a customer mission profile. Over-current protection, standby mode and remote shutdown are available.

PERFORMANCE SPECIFICATIONS:

(For an ambient temperature of 23 °C)

Input Voltage: 12 VDC
Typ. Steady State Input Power: (140mW @77K @ 23°C): <5W
Cool down time to 80K (200J): < 5 min
Maximum Input Power Required: 14 W (during cooldown)
Operating Ambient Temperature Range:- 40 °C to + 71 °C
Weight (without controller): < 200gr
MTBF: > 15.000h (Expected)

Meets Environmental Conditions per MIL-STD-810D

Optional cold finger designs are possible upon request.

