

RS046

Integral Rotary Stirling Cryocooler

Match All kinds of
Cooled IR Detectors



Description

With compact mechanical structure, and advanced c-rings sealing, RS046 detector dewar cooler was specially developed to fit the applications where low input power, volume and weight are the most important parameters. The RS046 family also introduces models such as RS046-6i, RS046-7i, and RS046-8i to meet the special requirements of different system designs for the mounting surface of detector components.

Principle

- Adopt key technologies such as high-efficiency brushless DC motor drive, high-efficiency wear-resistant coating, and high-precision miniature bearing support

Features

- Compact structure, small size, light weight, adapt to various harsh environments

Application

- Widely used in various electro-optical systems such as handheld imagers, pods, turrets, security monitoring, ADAS etc.



Specifications

Model	RS046
Type	Integral Rotary Stirling Cryocooler
MTTF	≥10000hrs
Maximum Size (mm)	120×59×78
Weight	≤500g
Cooling Power	(@77K@20°C) ≥750mW
Operating Temperature	-45°C~+71°C
Storage Temperature	-55°C~+85°C
Environmental Specification	GJB150A-2009
Input Voltage	18-28VDC
Max Power Consumption	≤24W
Steady Power Consumption	≤12W(550mW@77K@20°C)
Cooling Time	≤5min(500J@77K@20°C)
Cold Finger Size	Φ9.4mm
Electronics	Built-in
Integration Method	IDDCA

Specifications are subject to change without prior notice.

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