



CRYOCOOLER

Match **all kinds of** Cooled IR Detector

Integral Rotary Stirling Cooling

Split Rotary Stirling Cooling



RS058
Cooling Power
>550mW



RS079
Cooling Power
>750mW



RS046
Cooling Power
>400mW



RS046H
Cooling Power
>400mW

The cryo cooler is an indispensable part of the cooled infrared detector. It provides a cryogenic working environment for the focal plane array and ensures the normal operation of the cooled infrared detector.



Various Cooled Infrared Detectors





“Meet needs of various cooled infrared detector”



- Diversity products, integral/split/miniaturization.
- Mounting surface, inflation pressure, cool down time can be customized.



“Continuous and stable operation”

- MTTF>10000 Hour.

Model	RS058	RS079	RS046	RS046H
Type	Integral Rotary Stirling Cooling			Split Rotary Stirling Cooling
MTTF	> 10000hrs			
Size(mm)	116×58.5×71	120×59×78	95.6×81×46	45×34×67 Φ38×70
Weight	< 430g	< 600g	< 260g	< 250g
Cooling Power	(@77K@20°C) > 550mW	(@77K@20°C) > 750mW	(@77K@20°C) > 400mW	(@100K@20°C) > 400mW
Working Temperature	-45°C ~ +85°C			
Storage Temperature	-56°C ~ +85°C			
Environmental	MIL-STD-810			
Input Voltage	18-28VDC/12-16VDC	18-28VDC	24-32VDC/9-12VDC	24-32VDC
Max Power Consumption	<13W	<18W	<12W	
Steady Power Consumption	<7W(250mW@77K@20°C)	<12W(550mW@77K@20°C)	<3.2W(130mW@100K@20°C)	<3.5W(130mW@100K@20°C)
CoolingTime	<5min(250J@77K@20°C)	<5min(500J@77K@20°C)	<4.5min(150J@77K@20°C)	<5min(110J@100K@20°C)
Cold Finger Dimension	Φ8mm	Φ9.4mm	Φ6.4mm	
Electronics	Internal		External	
Integration Method	IDCCA			

Specifications are subject to change without notice.

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