

## LINEAR STIRLING COOLER SX095

- **Outstanding specific performance**
- **High MTF ( $>15,000\text{h}$ )**
- **High cooling capacity of 1.3W (@ 80K; 23°C)**
- **Sleeve coldfinger, suitable for IDCA solutions**

The SX cryocooler-series is our latest product family targeting 3rd Gen IR-applications.

The SX095 combines small outline dimensions with outstanding specific performance and provides high reliability exceeding lifetimes of 15,000h.

The compactness and cooling power meets the demand on lightweight high performance IR-technology. The SX095 provides a cooling capacity of more than 0.6W @ 80K, at high 71°C ambient temperature.

The resulting performance margin allows detector temperatures down to 60K as required for QWIP and VLW detectors.

The SX095 can be used with AIM's cooler electronics AM7X or alternatively with the customer's electronics.

Due to the sleeve design of the coldfinger (Titanium or optional Inconel®) the expander can be integrated and exchanged by the customer.

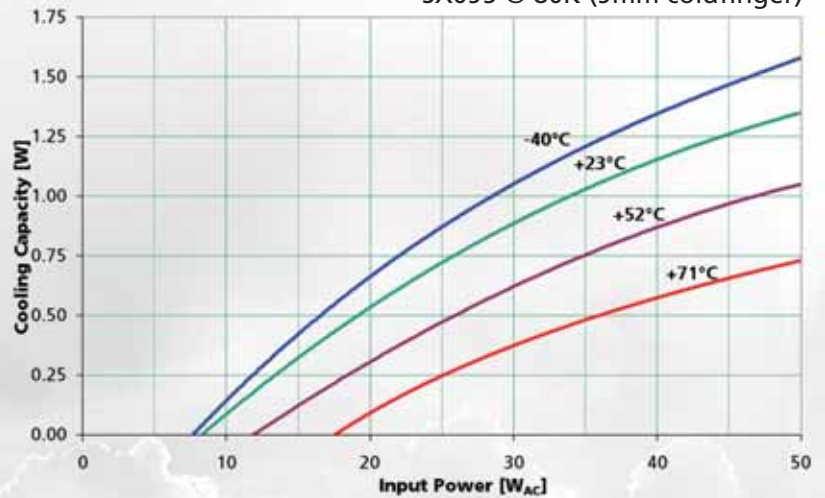


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Typical Performance Data  
SX095 @ 80K (9mm coldfinger)

### Applications

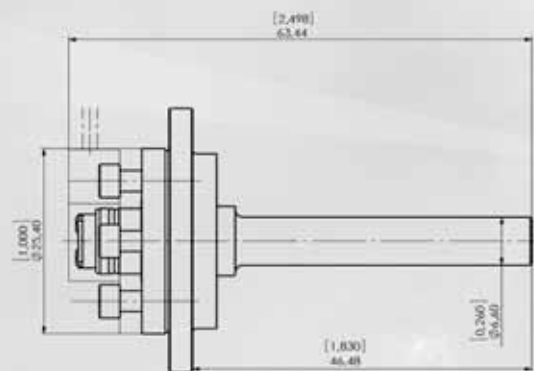
- 3rd Gen IR-systems
- High performance IDCAs
- IR-detectors operating at 60 - 120K (ambient temperature up to 80°C)
- Applications demanding high cryocooler reliability and reduction in maintenance costs



	SX095
Compressor diameter [mm]	44
Compressor length [mm]	115
Compressor weight [g] (without coldfinger)	760
Supply voltage	6-20 V <sub>Ac</sub>
Cooler controller	ext.
Coldtip outer diameter [mm]	6 (1/4") or 9
Ambient temperature range [°C]	-54 to +71°C



Dimensions SX095 compressor



Welding flange for outer dewar can be changed according to customer needs

Dimensions AIM 6mm coldfinger

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