

LINEAR STIRLING COOLER SL150

- **High MTTF (>8,000h)**
- **1.5 Watt cooling capacity at 67K coldtip temperature**
- **Internal or external cooler control electronics**

The AIM SL150 is a state-of-the-art linear drive Stirling cooler, which is designed for high performance IR-applications.

The high efficiency allows detector temperatures down to 50K.

The cooler is available in 3 versions:

- SL150A, for operation with external cooler controllers like AIM's AM7X.
- SL150B is a compact solution including miniaturized high precision control electronics AM7, integrated inside the compressor housing.
Excellent temperature stability $< \pm 20\text{mK}$.
- SL150C with integrated cooler controller AM7 and an additional EMI-Filter in the compressor housing.

This cooler is also qualified for the SADA 1 program.

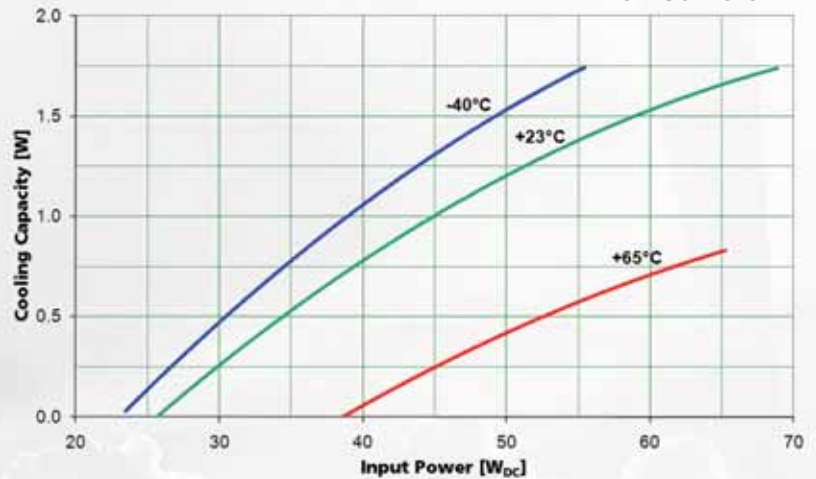


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Typical Performance Data
SL150B @ 67K

Applications

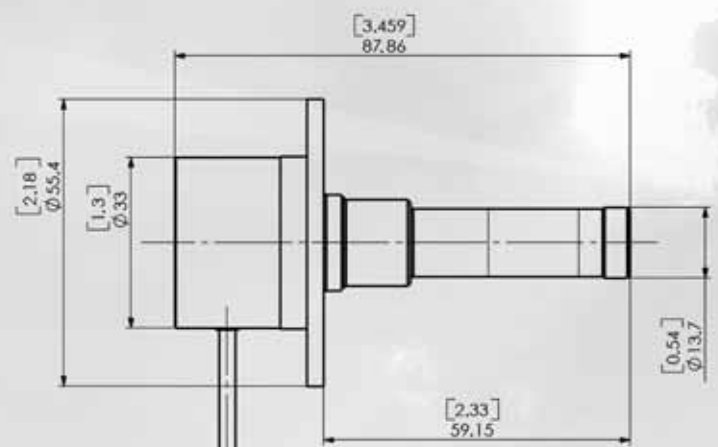
- Stand-alone service or in high performance integrated detector dewar applications
- High Performance IDCAs
- IR-detectors operating at 50 - 120K (ambient temperature up to 80°C)
- Qualified for various military programs. Cooler in serial production for airborne and vehicle applications



	SL150A	SL150B	SL150C
Input voltage	5-20 V _{AC}	24-32 V _{DC}	
Cooler controller	ext.	int. AM7	
EMI filter	-	-	yes
Compressor length [mm]	123	136	162
Compressor diameter [mm]	61		
Coldtip length [mm]	59.2		
Coldtip diameter [mm]	12, Top 13.7		
Weight [kg]	2.2	2.3	2.3
Reliability [h]	> 8,000		



Dimensions SL150C compressor



Dimensions coldfinger

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