LINEAR STIRLING COOLER SX035

- Very compact & lightweight
- Outstanding specific performance
- High MTTF (>30,000h)
- Cooling capacity of 1W (@ 120K; 23°C)
- Modular Cooler Concept
  - Several coldfinger options available

The SX cryocooler-series is our latest product family targeting HOT, 3rd Gen IR and industrial applications:

The SX035 combines small outline dimensions with outstanding specific performance and provides high reliability exceeding lifetimes of 30,000h being ideal for 24/7 operation.

The compactness and cooling power meets the demand for lightweight high performance IR-technology. The SX035 provides a cooling capacity of more than 1W @ 120K.

The SX035 can be used with AIM’s digital cooler electronics (µDCE050, DCE100) or alternatively with customers’ electronics.

This cooler can be used with different regenerator diameters allowing integration into standard rotary dewar bores.
Applications

- High Performance IR-systems
- HOT detectors operating at 90 - 160K
- Ambient temperature up to 80°C
- Applications demanding high cryocooler reliability and reduction in maintenance costs

<table>
<thead>
<tr>
<th>Compressor diameter</th>
<th>SX035</th>
<th>33.5 / 1.32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor length</td>
<td>mm/in</td>
<td>99 / 3.9</td>
</tr>
<tr>
<td>Compressor weight</td>
<td>g/lb</td>
<td>430 / 0.95</td>
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<tr>
<td>Supply voltage</td>
<td>V</td>
<td>5-15</td>
</tr>
<tr>
<td>Cooler Controller</td>
<td>µDCE050 / DCE100</td>
<td></td>
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<tr>
<td>Ambient temperature range</td>
<td>°C</td>
<td>-54 to +85</td>
</tr>
<tr>
<td>Suitable coldfinger / dewar diameter</td>
<td>6mm, 8mm</td>
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</table>

The data sheet shows only typical values that are not contractually binding.
AIM reserves the right to change specifications to reflect the latest changes in technology and improvements any time without notice / January 2018.