These units are high performance, cryogenically operated HgCdTe photodetector/amplifier modules. The unit should be at LN2 temperature before turning on power to the amplifier. A funnel is provided to assist in the filling of the dewar, which is best accomplished by gradually filling and topping off over a several minute period. The amplifier has a dual gain function controlled by a switch on the backplate. The HI (up) position is x10 above the LO (down) position. Output is thru a BNC-type cable, and power is connected thru a shielded multi-wire cable terminated in a 9-pin Dsub connector or solder leads.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Active Area</th>
<th>Operating Wavelength</th>
<th>Responsivity V/W @ pk [ typ HI Gain]</th>
<th>Bandwidth</th>
<th>Detectivity [ cm-Hz1/2/W ]</th>
<th>Power Requirement</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCT10-0025-E-LN</td>
<td>.25mm sq.</td>
<td>2 – 12&quot;</td>
<td>10^7</td>
<td>5Hz–50kHz STD</td>
<td>&gt; 5 x 10^10</td>
<td>+,-9 to 15 VDC, 60mA</td>
<td>LN Dewar</td>
</tr>
<tr>
<td>MCT10-005-E-LN</td>
<td>0.5mm sq.</td>
<td>2 – 12&quot;</td>
<td>10^8</td>
<td>5Hz–50kHz STD</td>
<td>&gt; 5 x 10^10</td>
<td>+,-9 to 15 VDC, 60mA</td>
<td>LN Dewar</td>
</tr>
<tr>
<td>MCT10-010-E-LN</td>
<td>1.0mm sq.</td>
<td>2 – 12&quot;</td>
<td>10^9</td>
<td>5Hz–50kHz STD</td>
<td>&gt; 5 x 10^10</td>
<td>+,-9 to 15 VDC, 60mA</td>
<td>LN Dewar</td>
</tr>
<tr>
<td>MCT10-020-E-LN</td>
<td>2.0mm sq.</td>
<td>2 – 12&quot;</td>
<td>10^5</td>
<td>5Hz–50kHz STD</td>
<td>&gt; 5 x 10^10</td>
<td>+,-9 to 15 VDC, 60mA</td>
<td>LN Dewar</td>
</tr>
<tr>
<td>MCT14-0025-E-LN</td>
<td>.25mm sq.</td>
<td>2 – 15&quot;</td>
<td>10^7</td>
<td>5Hz–50kHz STD</td>
<td>&gt; 4 x 10^10</td>
<td>+,-9 to 15 VDC, 60mA</td>
<td>LN Dewar</td>
</tr>
<tr>
<td>MCT14-005-E-LN</td>
<td>0.5mm sq.</td>
<td>2 – 15&quot;</td>
<td>10^8</td>
<td>5Hz–50kHz STD</td>
<td>&gt; 4 x 10^10</td>
<td>+,-9 to 15 VDC, 60mA</td>
<td>LN Dewar</td>
</tr>
<tr>
<td>MCT14-010-E-LN</td>
<td>1.0mm sq.</td>
<td>2 – 15&quot;</td>
<td>10^9</td>
<td>5Hz–50kHz STD</td>
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<td>5Hz–50kHz STD</td>
<td>&gt; 4 x 10^10</td>
<td>+,-9 to 15 VDC, 60mA</td>
<td>LN Dewar</td>
</tr>
<tr>
<td>MCT20-005-E-LN</td>
<td>0.5mm sq.</td>
<td>2 – 20&quot;</td>
<td>10^5</td>
<td>5Hz–50kHz STD</td>
<td>&gt; 1.0 x 10^10</td>
<td>+,-9 to 15 VDC, 60mA</td>
<td>LN Dewar</td>
</tr>
<tr>
<td>MCT20-010-E-LN</td>
<td>1.0mm sq.</td>
<td>2 – 20&quot;</td>
<td>10^5</td>
<td>5Hz–50kHz STD</td>
<td>&gt; 0.5 x 10^10</td>
<td>+,-9 to 15 VDC, 60mA</td>
<td>LN Dewar</td>
</tr>
</tbody>
</table>

Available Options Include:
- User specified FOV (60° STD) - Cold filters for sensitivity enhancement - Custom Geometries (linear arrays).
DEWAR OPTIONS

LN4

LN5

LN6

LN7