Main Application: Backscattering from a collimated source or beam target; angular correlation measurements.

Supplied with T Mount unless otherwise specified.

### C Series

#### Annular Partially Depleted Silicon Surface Barrier Detectors

<table>
<thead>
<tr>
<th>Total Area Including 4-mm-diam. Hole (mm²)</th>
<th>Guaranteed Maximum Resolution (keV)**</th>
<th>Minimum Depletion Depth 100 µm</th>
<th>Minimum Depletion Depth 300 µm</th>
<th>Minimum Depletion Depth 500 µm</th>
<th>Guaranteed Maximum Resolution (keV)**</th>
<th>Minimum Depletion Depth 1000 µm</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>α</td>
<td>17</td>
<td>C-017-050-100</td>
<td>C-017-050-300</td>
<td>18</td>
<td>C-018-050-1000</td>
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<tr>
<td>150</td>
<td>β</td>
<td>9</td>
<td>C-017-050-100</td>
<td>C-017-050-300</td>
<td>10</td>
<td>C-018-050-1000</td>
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<td></td>
<td>19</td>
<td>C-019-150-100</td>
<td>C-019-150-300</td>
<td>12</td>
<td>C-020-150-1000</td>
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<tr>
<td>450</td>
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<td>21</td>
<td>C-021-300-100</td>
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<td>C-022-300-1000</td>
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<td>C-025-450-100</td>
<td>C-025-450-300</td>
<td>20</td>
<td>C-025-450-1000</td>
</tr>
</tbody>
</table>

* Supplied in T Mount unless specified otherwise by appropriate letter prefix; 4-mm hole is standard, 6- or 8-mm hole or other areas and depths available on special order.

** First three digits of Model No. indicate total system resolution FWHM for 241 Am, 5.486-MeV alphas, using standard ORTEC electronics and 0.5-µs shaping time constants. Beta resolution approximated by pulse generator width FWHM.

### Mounting Arrangements

**A** This is a "ring mount"; i.e., the silicon wafer is offered on its ring without output connectors. This infrequently used arrangement is available on special request.

**T** Microdot on the side of the can. (Open back.)

Dimensions are given in millimeters.