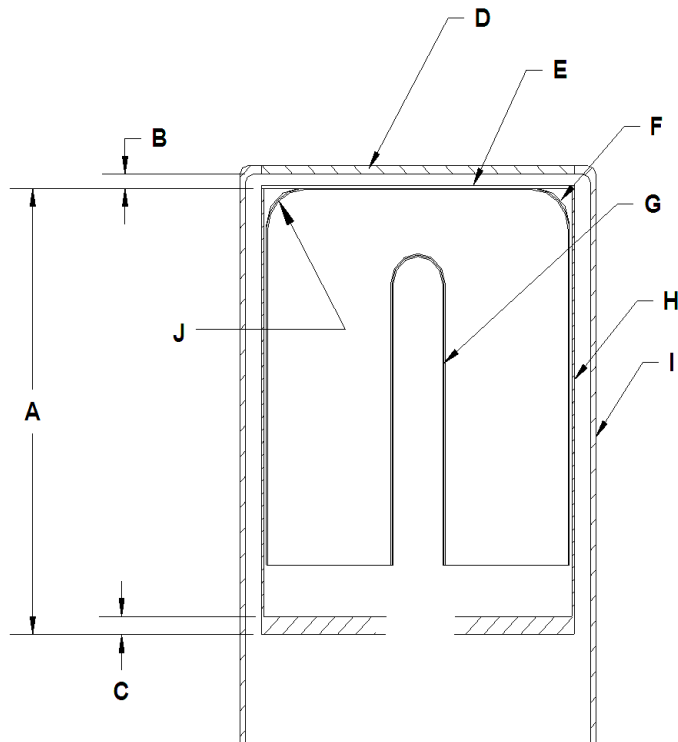


GERMANIUM DETECTOR DIAGRAM

SERIAL NUMBER 24-N1297



COMPANY PRIVATE

| BASIC DETECTOR DIMENSIONS | |
|---------------------------|----------------------------|
| DETECTOR DIAMETER | 64.9 mm |
| DETECTOR LENGTH | 57.8 mm |
| DETECTOR END RADIUS (J) | 8 mm, NOMINAL |
| HOLE DIAMETER | 9.4 mm |
| HOLE DEPTH | 48.6 mm |
| HOLE BOTTOM RADIUS | HOLE DIAMETER / 2, NOMINAL |

| MISCELLANEOUS DETECTOR ASSEMBLY DIMENSIONS AND MATERIALS | | | |
|--|-------------|------------------------|----------------------|
| IDENTIFIER | DIMENSION | DESCRIPTION | MATERIAL(S) |
| A | 105 mm | MOUNT CUP, LENGTH | ALUMINUM |
| B | 4 mm | END CAP TO CRYSTAL GAP | N.A. |
| C | 3.2 mm | MOUNT CUP BASE | ALUMINUM |
| D | 0.5 mm | END CAP WINDOW | BERYLLIUM |
| E | 0.05 mm | INSULATOR/SHIELD | ALUMINIZED MYLAR |
| F | 0.3 microns | OUTSIDE CONTACT LAYER | Ge with Boron ions |
| G | 700 microns | HOLE CONTACT LAYER | Ge with Lithium ions |
| H | 0.76 mm | MOUNT CUP WALL | ALUMINUM |
| I | 1.5 mm | END CAP WALL | ALUMINUM |

ORTEC

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