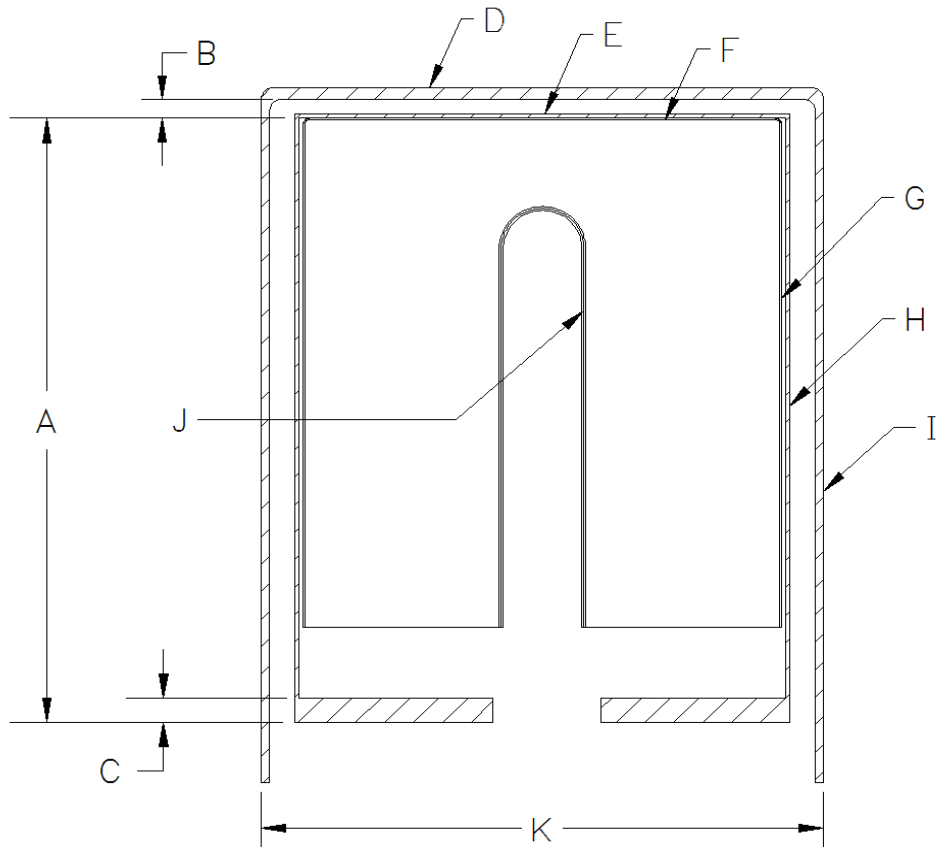


IDM DETECTOR DIAGRAM



BASIC DETECTOR DIMENSIONS

| | |
|--------------------|---------------|
| DETECTOR DIAMETER | 85 mm |
| DETECTOR LENGTH | 30 mm |
| HOLE DIAMETER | 9 +/- 1 mm |
| HOLE DEPTH | 15 mm |
| HOLE BOTTOM RADIUS | 4 mm, NOMINAL |

MISCELLANEOUS DETECTOR ASSEMBLY DIMENSIONS AND MATERIALS

| IDENTIFIER | DIMENSION | DESCRIPTION | MATERIAL(S) |
|------------|-------------------|------------------------|--------------------------|
| A | 45 mm | MOUNT CUP, LENGTH | ALUMINUM |
| B | 6 mm | END CAP TO CRYSTAL GAP | N.A. |
| C | 3.2 mm | MOUNT CUP BASE | ALUMINUM |
| D | 0.5 mm | END CAP WINDOW | ALUMINUM |
| E | 1.0mm / 0.5 mm | INSULATOR/SHEILD | POM*/ALUMINUM |
| F | 200 micron | WINDOW CONTACT LAYER | Ge (w/Li ions) |
| G | 700 micron | SIDE CONTACT LAYER | Ge (w/Li ions) |
| H | 0.79 mm / 0.38 mm | MOUNT CUP WALL | ALUMINUM / STAINLESS ST. |
| I | 1.6 mm | END CAP WALL | ALUMINUM |
| J | 0.3 micron | HOLE CONTACT LAYER | Ge (w/B ions) |
| K | 114 mm | ENDCAP DIAMETER | ALUMINUM |

NOTE: ALL ALUMINUM AND STAINLESS COMPONENTS HAVE APPROXIMATELY 0.63 MICRON GOLD PLATE ON INSIDE AND OUTSIDE SURFACES (6 LAYERS FOR A TOTAL OF 3.78 MICRONS OF GOLD).

* Poloxymethylene (Delrin)

ORTEC

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