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**78034 Gamma Detector**

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***GENERAL SPECIFICATIONS***

|                                |                     |
|--------------------------------|---------------------|
| Gas filling                    | Ne + Halogen        |
| Cathode material               | 446 Stainless Steel |
| Maximum length (inch/mm)       | 12.77/324.4         |
| Effective length (inch/mm)     | 9.45/240.0          |
| Maximum diameter (inch/mm)     | 1.37/34.8           |
| Connector                      | BNC                 |
| Operating temperature range °C | -40 to +75          |
| Effective diameter (inch/mm)   | 0.786/20.0          |

***ELECTRICAL SPECIFICATIONS***

|  |           |
|--|-----------|
| Recommended anode resistor (meg ohm)               | 3.3       |
| Maximum starting voltage (volts)                   | 400       |
| Recommended operating voltage (volts)              | 500       |
| Operating voltage range (volts)                    | 450 - 650 |
| Maximum plateau slope (%/100 volts)                | 15        |
| Minimum dead time (micro sec)                      | 200       |
| Gamma sensitivity Co60 (cps/mr/hr)                 | 150       |
| Tube capacitance (pf)                              | 3         |
| Weight (grams)                                     | 350       |
| Maximum background shielded 50mm Pb + 3mm Al (cpm) | 90        |
| Minimum anode resistor (meg ohm)                   | 2.7       |

***FILTER SPECIFICATIONS***

|                     |            |
|---------------------|------------|
| Material            | Sn         |
| Thickness (inch/mm) | 0.093/2.36 |

***WALL SPECIFICATIONS***

|                                     |             |
|-------------------------------------|-------------|
| Areal density (mg/cm <sup>2</sup> ) | 252         |
| Thickness (inch/mm)                 | 0.012/0.305 |





