**Radio Manufacturers Association**  
**Engineering Department**

**TYPE 1P24**  
Vacuum phototube; cartridge type.

**Release No. 429**  
August 20, 1945  
sponsor: General Electric Co.

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**GENERAL CHARACTERISTICS**

**Number of Electrodes**  
2

**Electrical**

- **Cathode Photosurface**  
  S-4
- **Luminous Sensitivity at 135 Volts, 0 cycles - minimum**  
  40 Microamperes per Lumen
- **Maximum Gas Amplification**  
  1.1
- **Interelectrode Capacitances**  
  0.5 Micromicrofarad
- **Maximum Dark Current at 250 Volts**  
  0.05 Microamperes
- **Wavelength of Maximum Response**  
  4500
- **Sensitivity at Maximum Response**  
  0.040 Microamperes per Microwatt

**Mechanical**

- **Illuminated Area of Cathode**  
  (Light at a 60° angle with tube axis) 0.25 Square Inch
- **Maximum Overall Height**  
  1.054 Inches
- **Maximum Diameter**  
  0.885 Inch
- **Mounting Position**  
  Any
- **Net Weight, approximate**  
  2 Ounces

**MAXIMUM RATINGS**

- **Anode Voltage (D-c or Peak A-c)**  
  500 Volts
- **Cathode Current Density**  
  100 Microamperes per Square Inch
- **Ambient Temperature**  
  50 °C

Ratings are on an absolute maximum basis.
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- **ANODE TAB MAY EXTEND ½ BEYOND OUTER EDGE OF HEADER BUT NOT OVER INNER EDGE**
- **CATHODE TAB MAY EXTEND ⅛ OVER INNEREDGE OF HEADER BUT NOT OVER OUTER EDGE**
- **TOP AND BOTTOM TABS TO COINCIDE WITHIN ±30°**