



**RADIO MANUFACTURERS ASSOCIATION  
ENGINEERING DEPARTMENT**

Release No. 429

August 20, 1945

sponsor:

General Electric Co.

**TYPE 1P24**

**Vacuum phototube; cartridge type.**

**GENERAL CHARACTERISTICS**

<b>Number of Electrodes</b>	<b>2</b>
<b>Electrical</b>	
<b>Cathode Photosurface</b>	<b>S-4</b>
<b>Luminous Sensitivity at 135 Volts, 0 cycles - minimum</b>	<b>40 Microamperes per Lumen</b>
<b>Maximum Gas Amplification</b>	<b>1.1</b>
<b>Interelectrode Capacitances</b>	<b>0.5 Micromicrofarad</b>
<b>Maximum Dark Current at 250 Volts</b>	<b>0.05 Microamperes</b>
<b>Wavelength of Maximum Response</b>	<b>4500</b>
<b>Sensitivity at Maximum Response</b>	<b>0.040 Microamperes per Microwatt</b>

**Mechanical**

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

**MAXIMUM RATINGS**

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

**Ratings are on an absolute maximum basis.**

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