

| $\begin{aligned} & \text { Type } \\ & \mathrm{No} . \end{aligned}$ | Fact-plate Description (See Notes) | Envolope | Screon | $\begin{gathered} \text { Donoce- } \\ \text { Hion } \\ \text { Angie } \\ \text { Appe } \\ \text { Prox.) } \\ \vdots \end{gathered}$ | Focuting | Bosing | Max. <br> Over-all <br> length <br> (in.) | Max. <br> Diameter Hi.xWd. <br> (in.) | Min. Uaetul Sereen $\mathrm{Ht}, \mathrm{xW}$ d. (in.) | $\begin{gathered} \text { Max. } \\ \text { Mock } \\ \text { Nenglh } \end{gathered}$ | Copacitance $(\mu \mu)$ between Bulb Coating and Anode Min. Max. | $\begin{gathered} \text { Bulb } \\ \text { Contact } \end{gathered}$ | Tron top | Max. Rotings $\dagger$ <br> Applied Voltages |  | Typleal Operation and Characteritites |  |  |  |  | Type. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Applied Voltages |  |  | Grid No. 1 (Visual Cut-on | $\begin{gathered} \text { Focusing } \\ \text { Coill } \\ \text { Current } \\ \text { (mac) } \\ \text { (opprox.) } \end{gathered}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | Anode | Grid $\text { No. } 2$ | Anode | Focusing Electrode | Orid No. 2 |  |  |  |
|  |  | Glass |  |  |  | 12 N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12184 C | G, S, Ro | Glass Glass Glass | Alum. | 54* | Magnetic Magnetic | 12 N 12 D | $19 / 9$ | ${ }^{12} 12 / 8$ | 11 11 | 87/6 | 7503000 No Coating | Cavity | Double | 12.000 12.000 | $410$ | $11,000$ |  | $\begin{aligned} & 250 \\ & 250 \end{aligned}$ | $\begin{aligned} & -27 \text { to }-63 \\ & -33 \text { to }-77 \end{aligned}$ | $\begin{aligned} & 100 \\ & 135 \end{aligned}$ | $121 P 4 \mathrm{C}$ <br> 120P4 |
| 12084 | c, S. Ro | Glass |  | $55^{\circ}$ $55^{\circ}$ | Magnetic | 12 D 12 D | 17\%9 | ${ }^{129 \% 6}$ | 11 | 73/16 | No Coating | Ball | Single | 12,000 12.000 | 410 410 | 10,000 10,000 |  | $\begin{aligned} & 250 \\ & 250 \end{aligned}$ | $\left\|\begin{array}{l} -33 \text { to }-77 \\ -27 \text { to } \\ -63 \end{array}\right\|$ | $\begin{aligned} & 135 \\ & 135 \end{aligned}$ | $120 \mathrm{P4}$ <br> 120 P 4 A |
| 12084A | G, S, Ro | Glass |  | 55 ${ }^{5}$ | Magnetic Magnetic | 12 l | 17818 | $129 / 18$ $123 / 16$ | 11 | 73/16 | No Coating | Ball | Single | 12,000 | 410 | 10,000 |  | 250 | -27 to -63 | 135 |  |
| 12 PP 4 | C, S, Ro | Glass |  | $54^{\circ}$ | Magnetic | 12 L | 191/6 | $121 / 2$ | 11 | 87/16 | No Coating | Cavity | Double | 12,000 | 410 | 11,000 |  | 250 | -27 to -63 | 110 | $12 \mathrm{TP4}$ |
| 12 P 4 | c, S, Ro | Metal |  | $54^{\circ}$ | Magnetic | 12 D | 19 | $121 / 2$ | $113 / 9$ | $81 / 16$ |  | Rim | Double | 12,000 | 410 | 11,000 |  | 250 | -27 to -63 | 110 | 2UP4 |
| 12UP4A | G, S, Ro | Metal |  | $54^{\circ}$ | Magnetic | 12 L | 19 | $121 / 2$ | $11 \%$ | $81 / 16$ |  | Rim | Double | 12,000 | 410 | 11,000 |  | 250 | -27 to -63 | 110 | 12UP4A |
| 12UP48 | G, T, S. Ro | Metal |  | $54^{\circ}$ | Magnetic | 120 | 19 | $121 / 2$ | $11 \%$ | $81 / 16$ |  | Rim | Single | 12,000 | 410 | 11,000 |  | 250 | -27 <br> -23 <br> to <br> -63 <br> 17 | 110 150 | 12UP48 |
| $12 \mathrm{VP4}$ | c, S, Ro | Glass |  | $55^{\circ}$ | Magnetic | 12 G | 18\% | $121 / 2$ | 11 | 711/16 | 750-3000 | Cavity | Double | 12,000 | No Grid | 11,000 |  |  | -33 to -77 | 150 |  |
| $12 \mathrm{VP4A}$ | G, S, Ro | Glass |  | $55^{\circ}$ | Magnetic | ${ }^{12 \mathrm{G}}$ | $183 / 8$ | 121/2 | 11 | $71 / 16$ | $750-3000$ 750000 | Cavity | Double | 12,000 12000 | No Grid | 11,000 10,000 | - | - | $\left\lvert\, \begin{aligned} & -33 \text { to }-77 \\ & -27 \text { to }-63 \end{aligned}\right.$ |  |  |
| $12 \mathrm{WP4}$ | G, S, Ro | Glass |  | 55 ${ }^{\circ}{ }^{\circ}$ | Magnetic | ${ }_{9} \mathrm{CH}$ | ${ }_{181}^{18}$ | $129 / 6$ $12 / 8$ | 111/4 | 79/12 | $750-2000$ 2000 | Special Cavity | Single NotInd. | $\begin{aligned} & 12,000 \\ & 9000 \end{aligned}$ | No Grid | $\begin{aligned} & 10,000 \\ & 8000 \end{aligned}$ | - | $250$ | -27 to -63 <br> 30 v . change | Not Spec. Not Ind. | $\begin{aligned} & \text { 12WP4 } \\ & 12 \times P 4 \end{aligned}$ |
| $12 \times p 4$ <br> $12 \mathrm{PrP4}$ <br> 1 | G, S. Ro | Class |  | $55^{\circ}$ | Magnetic Auto-Electro | 12 N | 181/2 | 121/8 | 81/4 | $71 / 2$ $81 / 16$ | ${ }_{750-3000}^{2000}$ | Cavity | Single | $\begin{aligned} & 9000 \\ & 12,000 \end{aligned}$ | $\begin{aligned} & 350 \\ & 410 \end{aligned}$ | 11,000 | - | $\begin{aligned} & 250 \\ & 250 \end{aligned}$ | 30v. change <br> -33 to -77 |  | ${ }_{12 \mathrm{YP}}$ |
| 12284 | c, S, Ro | Glass | Alum. | 54 | Magnetic | 12 N | 188 | 12\% | $111 / 4$ | $75 / 16$ | 5002000 | Cavity | Single | 12,000 | 410 | 11,000 |  | 250 | -27 to -63 | 135 | ${ }^{122 P 4}$ |
| 122P4A | G, S, Ro | Glass | Alum. | $54^{\circ}$ | Magnetic | 12 N | 18 | 129/6 | 11/4 | 75,16 | $500-2000$ | Cavity | Single | 12.000 | 410 | 11,000 |  | 250 | -27 to -63 | 135 | 122P4A |
| $14894^{4}$ | G. S. Re | Glass |  | $65^{\circ}$ | Magnetic | 12 N | $173 / 16$ | ${ }^{913} 16 \times 129 / 10$ | $88 \% \times 119 / 16$ | ${ }^{723} 23$ | 500-2000 | Cavity | Singlo | 14,000 | 410 | 11.000 |  | 250 250 | -27 to -63 -27 | 110 | 148P4** |
| 148 PAA | G, T, S, Re | Glass | - | $65^{\circ}$ | Magnetic | 12 N | 177/16 | $913 / 16 \times 12 \%$ | 8\%\%110/16 | ${ }^{723} 32$ | $500-2000$ $750-2000$ | Cavity | Single | 14,000 14.000 |  | 11.000 12,000 1 |  | 250 300 | -27 to -63 -33 to -72 | 115 115 | 148P4A |
| $14 \mathrm{CP4}^{*}$ | G, S, Re | Glass |  | $65^{\circ}$ | Magnetic | 12 N | 171/9 | $927 / 3 \times 1221 / 32$ |  | 721/22 | $750-2000$ | Cavity |  | 14,000 14.000 | 410 410 | 12,000 11,000 |  | $\left\lvert\, \begin{aligned} & 300 \\ & 250 \end{aligned}\right.$ | -33 to -27 to -63 |  | ${ }_{\text {14, }}^{14 \mathrm{CP4} 4^{*}}$ |
| $14 \mathrm{DP4}$ | G. S, Re | Glass |  | $65^{\circ}$ | Magnetic | 12D | 171/8 | $927 / 32 \times 12^{21 / 52}$ | $821 / 22 \times 119 / 16$ | $721 / 32$ | No Coating | Cavity | Double |  |  |  |  |  |  |  |  |
| $14 \mathrm{EP4}$ | G, S, Re | Glass |  | $65^{\circ}$ | Magnetic | ${ }_{12 \mathrm{~N}}^{12 \mathrm{~N}}$ | $167 / 8$ | ${ }^{927 / 32 \times 1221 / 32}$ | 88.8113 | 7\% 710 | $750-2000$ | Cavity Cavity | Single | $14,000$ $14,000$ | $\begin{aligned} & 410 \\ & 410 \end{aligned}$ | 12,000 | - | 300 | -33 to -77 | $\begin{aligned} & 110 \\ & 115 \end{aligned}$ | 141854 $14 F P 4$ |
| $14 \mathrm{FP4}$ <br> $14 \mathrm{GP4}$ <br> 1 |  | Glass |  | 65 $6{ }^{\circ}$ | Magnetic Electro. | ${ }_{12 \mathrm{~L}}^{12 \mathrm{~L}}$ | 161/2/6 | ${ }_{921 / 52 \times 12^{2} 1 / 52}^{92}$ | 88 | 7116 | $\begin{aligned} & \text { No Coating } \\ & 750-2000 \end{aligned}$ | Cavity | Single | 14,000 | $\begin{aligned} & 410 \\ & 500 \end{aligned}$ | 12,000 | 2170 to 2940 | 300 | -33 to -77 |  | ${ }^{144984}$ |
| ${ }_{114 \mathrm{HP4}}^{1}$ |  | ${ }_{\text {Glass }}$ |  | $65^{\circ}$ | Eloctro. | 12 L | 1731 | $913 / 16 \times 12 \%^{32}$ | $88.2 \times 113$ | 711/6 | 7502000 | Cavity | Single | 14,000 | 410 | 12.000 | -48 to +264 | 300 | -33 to -77 |  | $14 \mathrm{HP4} 4$ |
| 14 KP 4 | C, S, Ro | Glass |  | $65^{\circ}$ | Magnetic | ${ }^{12 \mathrm{~N}}$ | 162032 | ${ }^{927} / 32 \times 1221 / 92$ | $80 / 3 \times 1176$ | $71 / 16$ | ${ }^{500} 2000$ | Cap | Single | 10.000 | 380 | 9000 |  | 250 | -20 to -60 |  | $14 \mathrm{KP4} 4$ |
| 14kP4A | G, S, Ro | Glass |  | $65^{\circ}$ | Magnotic | 12 N |  | 9727/52 ${ }^{122} 11 / 32$ | 89.81136 | $711 / 3$ | ${ }^{1200}$ | Cap | Single | 14.000 14.000 | 410 500 | 12.000 12.000 |  | 250 300 | $30 v$ change -28 to -72 |  | 14 KPFA |
| 140P4 | G, S, Ro | Glass |  | $65^{\circ}$ | Electro. | 12 L | 1617/32 | 97/4x1211/16 | $81 / 2 \times 11$ \% | $71 / 16$ | 600900 | Cavity | Single | 14,000 15000 |  | 12.000 12000 | -150 to +350 | 300 250 | -28 to -72 <br> -27 to |  | 140P4 |
| 15AP4 | C, S, Ro | Glass |  | $5^{52^{\circ}}$ | Magnetic | 12 D | 207/6 | 153/4 | $131 / 2$ | 71/8 | No Coating | ${ }_{\text {Ball }}$ | None | 15.000 15.000 | 410 410 | 12,000 $9000-15,000$ | - ${ }^{\text {a }}$ | 250 250 | -27 to -63 -27 to $=63$ | 159 | 15AP4 |
| $15 \mathrm{CP4}$ | C, S, Ro | Glass |  |  |  | 12 l |  | 153 $15 \%$ | ${ }_{14}^{13 / 8}$ | 833/6 | No Coating No Coating | Cavity | Double <br> Single | 15.000 15.000 | 410 410 | $9000-15,000$ 13.000 |  | $\begin{aligned} & 250 \\ & 250 \\ & 250 \end{aligned}$ | - 27 to $\begin{aligned} & \text { - } \\ & =23 \\ & \text { to } \\ & \text { - }\end{aligned}$ | $\begin{aligned} & 115 \\ & 146 \end{aligned}$ | (150P4 |
| 130P4 | c, S, Ro c, S , Ro | Glass Glass |  | 57 ${ }^{5}{ }^{\circ}$ | Magnetic <br> Magnetic | 12 D | 201/3/4 | $153 / 4$ $157 / 16$ | $\begin{aligned} & 14 \\ & 101 / 16 \end{aligned}$ | 71/8 | No Coating $500-2000$ | Ball | Single <br> Notind. | 15.000 10,000 | ${ }_{380}$ | $\begin{aligned} & 13,00 \\ & 9000 \end{aligned}$ |  | $\begin{aligned} & 250 \\ & 250 \\ & 250 \end{aligned}$ | 30v. change | Not Ind. | $\begin{aligned} & \text { 15DP4 } \\ & \text { 15EP4 } \end{aligned}$ |
| 15684 | C, S, Ro | Glass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16abp4 | G, S, Ro | Glass |  | $6^{5}{ }^{\circ}$ | Auto-Electro. | 12 N | 191/8 | $1156 \times 14 / 8$ | 101/2x $131 / 2$ | $711 / 16$ | $750-1500$ 2000 | Cavity | Single | $16,000$ |  | $\begin{aligned} & 12,000-14,000 \\ & 12,000-133000 \end{aligned}$ | - |  |  |  |  |
| 16ACP4 | C, S, Ro | Glass |  | $60^{\circ}$ | Auto-Electro. Electro. | ${ }_{12 \mathrm{~N}}^{12 \mathrm{~L}}$ | 21/1/8 |  | 151/4 $101 / \times 131 / 2$ | 81/4/16 | ${ }^{2000} 1500$ | Cavity Cavity | Single | $\begin{aligned} & 14,000 \\ & 16,000 \end{aligned}$ | $\begin{aligned} & 410 \\ & 410 \end{aligned}$ | $\begin{aligned} & 12,000-13,000 \\ & 12,000-14,000 \end{aligned}$ |  | $\begin{aligned} & 250 \\ & 300 \end{aligned}$ |  | - | 16ACP4 <br> 16AEP4 |
| 16AEP4 | G, S. Re C. Cy, Re | Class | Alum. | $65^{\circ}$ | Electro. | ${ }_{122}^{12 L}$ | 1991/32 | 111/4x14\%/8 |  | 85.64 | 750-1500 Has Coating | Cavity | None | 16,000 | 410 | 12,000 | -64 to +350 | 250 | -27 to -63 |  | 16AFP4 |
| 16APP4 | c, S, Ro | Metal | Alum. | $53^{\circ}$ | Magnetic | 12 D | 22\% ${ }^{\text {\% }}$ |  | 14\% | 756 |  | Rim | Double | 14,000 | 410 | 9000-12,000 | - | 300 | -33 to -77 | 89 | 16AP |
| $16 A P 4 A^{\circ}$ | G, S, Ro | Metal |  | $53^{\circ}$ | Magnetic | 12 D | 22\% |  | $143 / 8$ | 7\% |  | Rim | Double | 14,000 | 410 | 12,000 |  | 300 | -33 to -77 | 89 | 16AP4A* |
| ${ }_{16 A P 4 B}$ | G, F, S, Ro | Metal |  | $53^{\circ}$ | Magnetic | 12 D | $22 \%$ |  | 1438 | 7\%\% |  | Rim | Double | 14,000 | 410 | 12,000 |  | 300 | -33 to -77 | 89 | 16AP48 |
| $10 C P 4$ | c, S, $\mathrm{Ro}^{\text {c }}$ | Glass |  | $52^{\circ}$ | Magnetic | 12 D | 21\% | 1515/16 | 15 | 613/16 | No Coating | Cavity | Double | 15,000 | 410 | 12.000 |  | 250 | -27 to -63 | 110 | $16 \mathrm{CP4}$ |
| 16DP4 | c, S. Ro | Glass |  | $60^{\circ}$ | Magnetic | 12 D | 21 |  | 141/2 |  | No Coating | Cavity | Double | 15,000 | 410 | 9000-12,000 |  | 250 | -33 to -77 | 115 115 | 160P4 |
| 160P4A | G, S, Ro | Glass |  | $60^{\circ}$ | Magnetic | 12D | 21 | 16 | $141 / 2$ | 715\% | No Coating | Cavity | Double | 15,000 | 410 | 9000-12,000 |  | 250 | -27 to -63 | 115 | 16DP4A |
| $16 E P 4$ | c, S, Ro | Metal |  | $60^{\circ}$ | Magnetic | 120 | 20 | 16 | $143 / 9$ | 613/16 |  | Rim | Double | 14,000 | 410 | ${ }^{12,000}$ |  | 300 300 | -33 to -33 -37 | 105 |  |
| 16EPPAA | G. S, Ro | Metal |  | 60 60 | Magnetic | 120 | 20 | 16 16 |  | $615 / 16$ $615 / 16$ |  | Rim |  | 14.000 14.000 | 410 410 | 12.000 12.000 |  |  | -33 to -77 -33 | $\begin{aligned} & 105 \\ & 105 \end{aligned}$ | $16 E P 4 A$ |
| 16EPP4 | G, T, S. Ro | Metal |  | 60 $60^{\circ}$ | Magnetic Magnetic | 120 | ${ }^{20}$ | 16 $16 \%$ | 14\% | 615/16 $73 / 16$ |  | $\underset{\text { Rim }}{\text { Ball }}$ | Single | 14,000 16,000 | 410 410 | 12,000 12,000 |  | 300 300 | -33 to -77 | 105 140 | $\begin{aligned} & 16 \mathrm{EP4B} 48 \\ & 16 \mathrm{FP4} \end{aligned}$ |
| 16 FP 4. | C, S, Ro | Glass | - | ${ }^{62} 0^{\circ}$ | Magnetic Magnotic | 120 | 20517/16 | ${ }_{16}^{163}$ | 15 | ${ }_{7} 7$ | No Coating | Rim | Single | 14,000 | 410 | 12,000 12,000 |  | 300 | -33 to -77 | 100 | 16FP4. |
| 16GP4* | G, S, Ro | Metal Metal |  | $70^{\circ}$ | Magnetic | ${ }_{120}$ | 1711/16 | 16 | 1439 | 7 | - | Rim | Single | 14,000 | 410 | 12,000 |  | 300 | -33 to -77 | 100 | 160P4A |
| $16 \mathrm{GP48}{ }^{\circ}$ | $\mathbf{G}$, $\mathbf{F}$, S, Ro | Metal |  | $70^{\circ}$ | Magnetic | 12 D | 1711/6 | 16 | 1436 | 7 |  | Rim | Single | 14,000 | 410 | 12,000 |  | 300 | -33 to -77 | 100 | $166 \mathrm{P} 48^{*}$ |
| $16 \mathrm{GP4C}$ | c, F, S, Ro | Metal |  | $70^{\circ}$ | Magnetic | 12 D | 1711/16 | 16 | $14 \%$ |  |  | Rim | Single | 14,000 | 410 | 12,000 |  | 300 | -33 to -77 | 100 | 16084 c |
| $16 \mathrm{HP4}$ | c, S, Ro | Glass |  | $60^{\circ}$ | Magnetic | 12 N | 2159 | 16 | 141/2 | 89/16 | 1500-3500 | Cavity | Double | 14,000 | 410 | 12,000 |  | 300 | -33 to -77 | 110 | $16 \mathrm{HP4}$ |
| $16 \mathrm{HP4A}$ | G, S, Ro | Glass |  | $60^{\circ}$ | Magnetic | 12 N | 21\% | 16 | $141 / 2$ | 89/16 | 1500-3500 | Cavity | Double | 14,000 | 410 | 12,000 |  | 300 | 33 to - | 110 | $16 \mathrm{HP4A}$ |
| 16.54 | c, S, Ro | Glass | - | $60^{\circ}$ | Magnetic | 12 N | $211 / 8$ | 163\% | 15 | $71 / 16$ | 750-2000 | Cavity | Double | 14.000 | 410 | 11,000 11000 | - | 250 250 | -27 to -63 -27 | 115 |  |
| 161P4A | G, S. Ro | Glass Glass |  | $60^{\circ}$ $65^{\circ}$ | Magnetic Magnetic | ${ }_{12 \mathrm{~N}}^{12 \mathrm{~N}}$ | 211/8 |  |  | 71116 7116 | $750-2000$ $750-1500$ | Cavity Cavity | Double | 14,000 16.000 | 410 | 11,000 $12,000-16,000$ |  | 250 300 | -27 to <br> -33 <br> -33 | 115 108 | (16.JP4A |
| 16KP4** | G, S, Ro | Class | Alum. | $65^{\circ}$ | Magnetic Magnetic | ${ }_{12 \mathrm{~N}}^{12 \mathrm{~N}}$ | 191/8 | 1179x14\% |  | $711 / 16$ | $750-150$ $750-1500$ | Cavity | Single | 16,000 | 410 | ${ }^{14,000}$ |  | 300 | -33 0 - -77 | 108 | $16 \mathrm{KPP4A}$ |
| 16194 | c, S, Ro | Glass |  | $52^{\circ}$ | Magnetic | 12 N | 229 |  | $14 / 2$ | $79 / 16$ | 1500.3500 | Cavity | Double | 14,000 | 410 | 12.000 |  | 300 | -33 to -77 | 110 | 16194 |
| 16IP4A | G, S, Ro | Glass |  | 52 ${ }^{\circ}$ | Magnetic | 12 N | 22\% | 16 | $14 / 3$ | 7916 | 750.2000 | Cavity | Double | 14,000 | 410 | 12,000-14,000 |  | 300 | -33 to -77 | 110 | 16194 |
| 16 MP 4 | c, S, Ro | Glass | - | $60^{\prime}$ | Magnetic | 12 N | $221 / 8$ | $161 / 4$ | 143 14 | $811 / 16$ | 1500-3500 | Cavity | Double | 14,000 | 410 | ${ }^{12,000}$ | - | 300 | -33 to -77 | 110 | (16MP4 |
| $16 \mathrm{MP4A}$ | G, S. Ro | Glass Glass |  | $60^{\circ}$ | Magnetic | ${ }_{12 \mathrm{~N}}^{12 \mathrm{~N}}$ | 221/1 | ${ }_{11}^{16 / 4 / 16 \times 1415 / 16}$ | 14, $1018 \times 131 / 2$ | $881 / 16$ | $1500-3500$ No Coating | Cavity | Double | 14.000 16.000 | 410 | 12,000 14,000 |  | 300 250 | -33 to -27 to -63 | ${ }_{100-150}$ | 16MP4 |
| 160P4. | G, S. Ro | Gilass |  | $65^{\circ}$ | Magnotic | ${ }_{12} \mathrm{~N}^{2}$ | 19\% | 117/16141/ | 10\% $\times 13 / 3$ | 7116 | 750-1500 | Cavity |  | 16.000 | 410 | 12,000-16,000 |  | 300 | -33 to -77 | 100 | 16 RP |
| 16 PPAA | G, s. Ro | Giass | Alum. | $65^{\circ}$ | Magnetic | 12 N | 19\% | 119\% $\times 14 \%$ | 1019 $\times 131 / 2$ | $711 / 18$ | 7501500 | Cavity | Single | 16,000 | 410 | 12.000-16,000 | - | 300 | -33 to -77 | 100 | 16 PPAA |

Bold-face type highlights the important characteristics that differ among similar Tube Types having different suffix letters.
NOTES:
AAl tubes in this section have heater ratings of 6.3 volts and 0.6 ampere. Only tubes that aro magnetically
deflected aro included.
deflected aro includod. C-cloar, Cy - cylindrical, F-frostod, $\mathbf{G}$ - gray. Ro-rectangular, Ro-round,

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\(\dagger\) Design-center values.
For res external tubular magnotic shield.
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spherical, T-truated.

TELEVISION PICTURE TUBES

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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | - | not | Anote | ${ }^{\text {Fuckiciag }}$ | No.t | ation |  |  |
|  |  |  | $\ddagger$ |  |  |  |  |  |  |  |  |  |  |  |  |  | 三 |  |  | $\begin{aligned} & 100 \\ & \begin{array}{l} 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \end{array} \end{aligned}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | $\begin{aligned} & \equiv \\ & E \\ & E \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | - |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\underset{\substack{3 \infty \\ 3 \\ 3 \\ 30 \\ 30}}{\substack{20}}$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{\|l\|} \hline \bar{Z} \\ \hline \bar{y} \\ \hline \bar{Z} \\ \hline-80+300 \\ \hline \end{array}$ |  |  |  |  |



Bold-face type highlights the important characteristics that differ among similar Tube Types having different suffix letters.
NOTES: All tubes in this section have heater ratings of 6.3 volts and 0.6 ampere. Only tubes that are magnetically
anded
deflected are included.
Face-Piate Code: C-clear, Cy-cylindrical, F-frosted, G-gray, Re-rectangular, Ro-round,
spherical, $\mathbf{T}$-treated.

TELEVISION PICTURE TUBES


## BASING DIAGRAMS

Bottom Views of Socket Connections

$4 A F$






8 EQ

9 CH






12 L







15 GP 22 15 HP 22

Courtesy of John Folsom

