

PICTURE TUBE CHARACTERISTICS CHART

Color Picture Tubes

Type No.	Envelope Code	Safety Feature	Nom. Deflection Angle Degrees	Heater Volts/mA	Max. Anode Voltage kV*	Range of Focus Voltage in Volts or % of Anode Voltage	Range of G2 Voltage at G1 = -150 V Volts	Screen Diag. Inches	Terminal Diagram
14VAHP22 ^h	SGA	H	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	13.557	14BH
14VALP22 ^h	SGA	M	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	13.557	14BH
15AEP22 ^c	SGA	M	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	13.557	14BH
15LP22 ^c	SGAT	D	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	13.557	14BH
15NP22 ^c	SGA	H	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	13.557	14BH
15VADTC01 ^{hp}	SGA	H	90	6.3/900	27.5	16.8 - 20.0	425 - 820	15.051	13D
15VAETC01 ^{hmp}	SGA	H	90	6.3/900	d27.5	16.8 - 20.0	425 - 820	15.051	13D
16VACP22 ^b	SGA	H	90	6.3/900	22.5	-75V - +400V ⁹	165 - 420 ⁱ	16.191	14BH
17EZP22 ^c	SGA	H	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	16.191	14BH
17VACP22 ^h	SGA	F	90	6.3/900	22.5	-75V - +400V ⁹	150 - 385 ⁱ	17.018	14BH
17VADP22 ^{hm}	SGA	F	90	6.3/900	22.5	-75V - +400V ⁹	150 - 385 ⁱ	17.018	14BH
17VARP22 ^{hm}	SGA	F	90	6.3/900	27.5	16.8 - 20.0	255 - 655	17.018	14BE
17VAYTC01 ^{bmp}	SGA	F	90	6.3/900	d27.5	16.8 - 20.0	425 - 820	17.018	13D
18VAHP22 ^b	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	285 - 685	18.075	14BE
18VAZP22 ^h	SGA	F	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	18.075	14BH
18VBDP22 ^b	SGA	F	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	18.075	14BH
18VBGP22 ^h	SGAT	D	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	18.075	14BH
18VBJP22 ^h	SGA	K	90	6.3/900	22.5	-75V - +400V ⁹	285 - 685	18.075	14BH
18VBKP22 ^{hm}	SGA	F	90	6.3/900	27.5	16.8 - 20.0	285 - 685	18.075	14BE
19GVP22/ 19EXP22 ^c	SGA	A	90	6.3/900	27.5	16.8 - 20.0	285 - 685	18.075	14BE
19GWP22/ 19EYP22 ^c	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	285 - 685	18.075	14BE
19HCP22/ 19HKP22 ^c	SGA	F	90	6.3/900	27.5	16.8 - 20.0	285 - 685	18.075	14BE
19HNP22 ^c	SGA	F	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	18.075	14BH
19JWP22 ^c	SGAT	D	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	18.075	14BH
19VABP22 ^h	RGAT	D	70	6.3/1800	27.5	16.8 - 20.0	310 - 690	19.250	14AU
19VANP22 ^h	SGA	F	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	18.897	14BH
19VBLP22 ^h	SGA	F	110	6.3/900	27.5	16.8 - 20.0	265 - 665	18.897	13C
19VBQP22 ^{hm}	SGA	F	90	6.3/900	22.5	-75V - +400V ⁹	150 - 375 ⁱ	18.897	14BH
19VBRP22 ^{cm}	SGA	F	90	6.3/900	27.5	16.8 - 20.0	285 - 685	18.897	14BE
19VCTP22 ^{cm}	SGA	F	90	6.3/900	27.5	16.8 - 20.0	260 - 660	18.897	14BE
19VDS P22 ^{hm}	SGA	F	90	6.3/900	d27.5	16.8 - 20.0	260 - 660	18.897	14BE
19VDT P22 ^h	SGA	F	90	6.3/900	d27.5	16.8 - 20.0	260 - 660	18.897	14BE
19VEDP22 ^{hm}	SGA	F	90	6.3/900	d32.0	16.8 - 20.0	250 - 645	18.897	14BE
19VEUP22 ^h	SGA	F	90	6.3/900	d32.0	16.8 - 20.0	250 - 645	18.897	14BE
20VAGP22 ^h	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	285 - 685	20.233	14BE
20VAHP22 ^h	SGA	F	90	6.3/900	22.5	-75V - +400V ⁹	150 - 390 ⁱ	20.233	14BH
21FJP22 ^c	RGAT	D	70	6.3/1800	27.5	16.8 - 20.0	310 - 690	19.250	14AU
21GUP22/ 21FBP22A ^c	RGA	A	70	6.3/1900	27.5	16.8 - 20.0	310 - 690	19.250	14AU
21GVP22/ 21FJP22A ^c	RGAT	D	70	6.3/1900	27.5	16.8 - 20.0	310 - 690	19.250	14AU
21VAKP22 ^{bm}	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	285 - 685	20.871	14BE
21VAMP22 ^c	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	285 - 685	20.871	14BE
21VBEP22 ^h	SGA	F	90	6.3/900	d32.0	16.8 - 20.0	250 - 645	20.871	14BE
22JP22 ^c	SGAT	D	90	6.3/900	27.5	16.8 - 20.0	285 - 685	20.233	14BE
22KP22 ^c	SGA	A	90	6.3/900	27.5	16.8 - 20.0	285 - 685	20.233	14BE
22UP22 ^c	SGA	F	90	6.3/900	27.5	16.8 - 20.0	285 - 685	20.233	14BE

Color Picture Tubes (Cont.)

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23VALP22 ^{b,m}	SGAT	D	90	6.3/900	27.5	16.8 — 20.0	260 — 660	22.995	14BE
23VANP22 ^b	SGAT	D	90	6.3/900	27.5	16.8 — 20.0	260 — 660	22.995	14BE
23VAQP22 ^c	SGA	F	90	6.3/900	27.5	16.8 — 20.0	260 — 660	22.995	14BE
25BCP22 ^{c,m}	SGAT	D	90	6.3/900	27.5	16.8 — 20.0	260 — 660	22.995	14BE
25VABP22 ^{c,m}	SGAT	D	90	6.3/900	27.5	16.8 — 20.0	260 — 660	24.658	14BE
25VAEP22 ^c	SGAT	D	90	6.3/900	27.5	16.8 — 20.0	260 — 660	24.658	14BE
25VAMP22 ^{c,m}	SGAT	D	90	6.3/900	27.5	16.8 — 20.0	250 — 650	24.658	14BE
25VBEP22 ^{h,m}	SGA	K	90	6.3/900	27.5	16.8 — 20.0	285 — 685	24.658	14BE
25VCKP22 ^{c,m}	SGAT	D	90	6.3/900	d32.0	16.8 — 20.0	250 — 645	24.658	14BE
25VCZP22 ^{h,m}	SGA	F	90	6.3/900	d32.0	16.8 — 20.0	295 — 680	24.658	14BE
25VDXP22 ^{h,m}	SGA	D	90	6.3/900	d32.0	16.8 — 20.0	250 — 645	24.658	14BE
25XP22/ 25AP22 ^c	SGAT	D	90	6.3/900	27.5	16.8 — 20.0	285 — 685	22.995	14BE
25YP22/ 25BP22 ^c	SGA	A	90	6.3/900	27.5	16.8 — 20.0	285 — 685	22.995	14BE

Color Test Picture Tube

1830P22	SGAT	D	90	6.3/900	27.5	16.8 — 20.0	285 — 685	18.075	14BE
1895P22	SGAT	D	90	6.3/900	d32.0	16.8 — 20.0	260 — 660	18.075	14BE

SAFETY PRECAUTIONS

In servicing a television receiver that requires a replacement picture tube, a tube with the same type number or an RCA recommended replacement tube type

should be used to assure the same or improved integral x-radiation shielding and implosion protection.

Note: For additional Safety Precautions, refer to page 93.

Notes for Picture Tube Characteristics Chart

● **Envelope Code** (All types have spherical faceplate except where noted)

R Round
S Rectangular
G Glass
C Cylindrical faceplate
A Aluminized
T Treated faceplate

★ **Safety Feature**

A Conventional Tube — Requires Safety Window in Receiver
B Integral Moulded-Glass Safety Panel (Bi-Panel*)
C Filled Rim (Shelbond†)
D Integral Safety Panel (Laminated)
F Tension Band Over Formed Rim Bands (Kimcode †)
G Welded Tension Band Over Formed Rim Bands (Pan-O-Ply*)
H Tension Band Over Tape (T-Band)
J Welded Tension Band Over Tape (T-Band)
K Tension Band Over Formed Rim Bands With Mounting Lugs (Kimcode/Lugs)

L Welded Tension Band Over Formed Rim Bands With Mounting Lugs (Pan-O-Ply/Lugs)
M Tension Band With Mounting Lugs Over Tape (T-Band Lugs)

■ **Focusing Method**

A Automatic focus
E Electrostatic focus
M Magnetic focus

Footnotes

a. All Materials and parts used in the manufacture of RCA Silverama Picture Tubes are new except for the envelope which, prior to reuse, was carefully inspected to meet the standards of the original new envelope.
b. Both Colorama and Hi-Lite versions are available.
c. Only Colorama versions (prefix C— or CA—) are available. RCA Colorama Picture Tubes contain used materials which, prior to reuse, are carefully in-

spected to meet RCA's high quality standards.

d. Absolute-Maximum value.

g. This type has an einzel lens focus system. Values shown are in volts which do not vary with anode voltage.

h. Only Hi-Lite Versions (prefix H—) are available. RCA Hi-Lite Color Picture Tubes contain all New Parts and Materials.

j. At Grid-No.1 voltage of —100 volts.

k. At Grid-No.1 voltage of —50 volts.

m. MATRIX Color Picture Tube.

p. Precision In-Line Color Picture Tube.

* Trademark of RCA, Lancaster, Pa., 17604.

† Trademark of Corning Glass Works, Corning, N.Y. 14830

‡ Trademark of Owens-Illinois, Inc., Columbus, Oh. 58727

* Design-Maximum value unless otherwise noted.