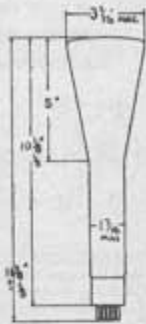
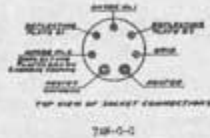


CATHODE RAY TUBE OPERATING CHARACTERISTICS

3AP1/906-P1 3AP4/906-P4

Three Inch Videotron
INDIRECTLY HEATED CATHODE
HEATER VOLTAGE: 2.5 Volts
HEATER CURRENT: 2.1 Amps.
ELECTROSTATIC DEFLECTION



CHARACTERISTICS:

	P1—Green	P4—White	
High-Voltage Anode (No. 2)	1500 max.		Volts
Focusing Anode (No. 1)	1000 max.		Volts
Cut-off Control Grid Voltage	- 50 ± 50%		
Peak Voltage Between High-Voltage Anode and Any Deflecting Plate	600 max.		Volts
Fluorescent-Screen Input Power Per Sq. Cm.	10 max.		Milliwatts

TYPICAL OPERATION:

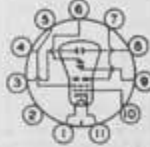
Anode No. 2 Voltage	500	800	1200	1500	Volts
Anode No. 1 Voltage	170	230	345	430	Volts
Cut-off Grid Voltage	Adjust to Give Suitable Luminous Spot				
Deflection Sensitivity:					
Plates D1 & D2	0.55	0.41	0.27	0.22	MM/Volt D.C.
Plates D3 & D4	0.58	0.44	0.29	0.23	MM/Volt D.C.

CAPACITANCE:

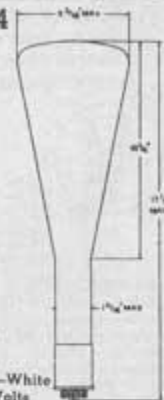
Grid-to-all-other-Electrodes	5 ^c	μpf
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5BP1/1802-P1 5BP4/1802-P4

Long Five Inch Videotron
INDIRECTLY HEATED CATHODE
HEATER VOLTAGE: 6.3 Volts
HEATER CURRENT: 0.6 Amps.
ELECTROSTATIC DEFLECTION



PIN No. 1—Heater
PIN No. 2—No Connection Pin
PIN No. 3—Deflecting Plate D1
PIN No. 4—Anode No. 1
PIN No. 5—Tied to Pin No. 4
PIN No. 6—Deflecting Plate D4
PIN No. 7—Anode No. 2
PIN No. 8—Deflecting Plate D2
PIN No. 9—Deflecting Plate D3
PIN No. 10—Grid
PIN No. 11—Heater and Cathode



CHARACTERISTICS:

	P1—Green	P4—White	
High Voltage Anode (No. 2)	2000 max.		Volts
Focusing Anode (No. 1)	500 max.		Volts
Control Grid Voltage	Never Positive		
Cut-off Grid Voltage	- 40 ± 50%		Volts
Fluorescent-Screen Input Power Per Sq. Cm.	10 max.		Milliwatts

TYPICAL OPERATION:

Anode No. 2 Voltage	1200	1500	2000	Volts
Anode No. 1 Voltage	250	310	425	Volts
Grid Voltage	Adjust for Suitable Luminous Spot			
Deflection Sensitivity:				
D1 & D2	0.5	0.4	0.3	MM/Volt D.C.
D3 & D4	0.55	0.44	0.33	MM/Volt D.C.

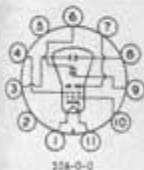
CAPACITANCE:

Grid-to-all-other-Elements	9	μpf
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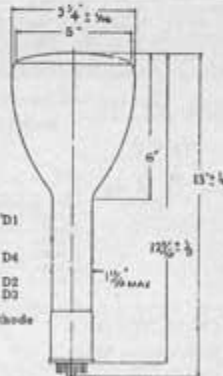
5AP4/1805-P4

Short Five Inch Videotron

INDIRECTLY HEATED CATHODE
HEATER VOLTAGE: 6.3 Volts
HEATER CURRENT: 0.6 Amps.
ELECTROSTATIC DEFLECTION



PIN No. 1—Heater
PIN No. 2—No Connection
PIN No. 3—Deflecting Plate D1
PIN No. 4—Anode No. 1
PIN No. 5—Do not use
PIN No. 6—Deflecting Plate D4
PIN No. 7—Anode No. 2
PIN No. 8—Deflecting Plate D2
PIN No. 9—Deflecting Plate D3
PIN No. 10—Grid
PIN No. 11—Heater and Cathode



CHARACTERISTICS:

High Voltage Anode (No. 2)	2000 max.		Volts
Focusing Anode (No. 1)	700 max.		Volts
Control Grid Voltage	Never Positive		
Cut-off Grid Voltage	- 57 ± 30%		Volts
Fluorescent-Screen Input Power Per Sq. Cm.	10 max.		Milliwatts
Fluorescent Color	White		

TYPICAL OPERATION:

Anode No. 2 Voltage	1500	2000	Volts
Anode No. 1 Voltage	425	575	Volts
Grid Voltage	Adjust for Suitable Luminous Spot		
Deflection Sensitivity:			
D1 & D2	0.23	0.17	MM/Volt D.C.
D3 & D4	0.28	0.21	MM/Volt D.C.

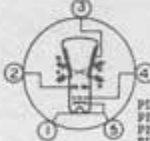
CAPACITANCE:

Grid-to-all-other-Elements	12 max.	μpf
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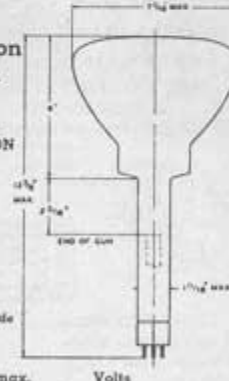
7AP4

Short Seven Inch Videotron

INDIRECTLY HEATED CATHODE
HEATER VOLTAGE: 2.5 Volts
HEATER CURRENT: 2.1 Amps.
ELECTROMAGNETIC DEFLECTION



PIN No. 1—Heater
PIN No. 2—Anode No. 1
PIN No. 3—Anode No. 2
PIN No. 4—Grid
PIN No. 5—Heater and Cathode



CHARACTERISTICS:

High-Voltage Anode (No. 2)	3500 max.		Volts
Focusing Anode (No. 1)	1000 max.		Volts
Cut-off Control Grid Voltage (No. 1)	- 30 ± 50%		
Fluorescent-Screen Input Power Per Sq. Cm.	2.5 max.		Milliwatts
Fluorescent Color	White		

TYPICAL OPERATION:

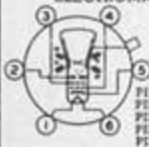
Anode No. 2 Voltage	3500	Volts
Anode No. 1 Voltage approx.	675	Volts
Control Grid Voltage	Adjust for Suitable Luminous Spot	
Control Grid, Peak-to-Peak Signal Voltage	15	Volts

CAPACITANCE:

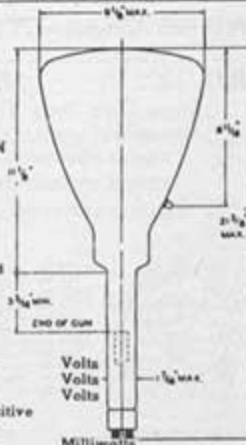
Grid to all other Electrodes	12	μpf
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9AP4/1804-P4

Nine Inch Videotron
INDIRECTLY HEATED CATHODE
HEATER VOLTAGE: 2.5 Volts
HEATER CURRENT: 2.1 Amps.
ELECTROMAGNETIC DEFLECTION



PIN No. 1—Heater
PIN No. 2—Anode No. 1
PIN No. 3—Accelerating Grid
PIN No. 4—Control Grid
PIN No. 5—Cathode
PIN No. 6—Heater
CAP—Anode No. 2



CHARACTERISTICS:

High-Voltage Anode (No. 2)	7000 max.	Volts
Focusing Anode (No. 1)	1900 max.	Volts
Accelerating Grid (No. 2)	250 max.	Volts
Control Grid (No. 1)	Never Positive	Volts
Fluorescent-Screen Input Power Per Sq. Cm.	10 max.	Milliwatts
Fluorescent Color	White	

TYPICAL OPERATION:

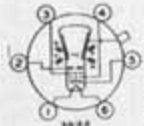
Anode No. 2 Voltage	6000	7000	Volts
Anode No. 1 Voltage approx.	1225	1425	Volts
Accelerating Grid Voltage	250	250	Volts
Control Grid Voltage	Adjust for Suitable Luminous Spot		
Control Grid Voltage for Cut-off	-40 ± 50%		Volts
Control Grid, Peak-to-Peak Voltage	25	25	Volts

CAPACITANCE:

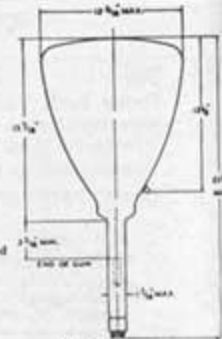
Grid No. 1 to all other Elements	12	μf
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12AP4/1803-P4

Twelve Inch Videotron
INDIRECTLY HEATED CATHODE
HEATER VOLTAGE: 2.5 Volts
HEATER CURRENT: 2.1 Amps.
ELECTROMAGNETIC DEFLECTION



PIN No. 1—Heater
PIN No. 2—Anode No. 1
PIN No. 3—Accelerating Grid
PIN No. 4—Control Grid
PIN No. 5—Cathode
PIN No. 6—Heater
CAP—Anode No. 2



CHARACTERISTICS:

High Voltage Anode (No. 2)	7000 max.	Volts
Focusing Anode (No. 1)	1900 max.	Volts
Accelerating Grid (No. 2)	250 max.	Volts
Control Grid (No. 1)	Never Positive	Volts
Fluorescent-Screen Input Power Per Sq. Cm.	10 max.	Milliwatts
Fluorescent Color	White	

TYPICAL OPERATION:

Anode No. 2 Voltage	6000	7000	Volts
Anode No. 1 Voltage approx.	1240	1460	Volts
Accelerating Grid Voltage	250	250	Volts
Control Grid Voltage	Adjust for Suitable Luminous Spot		
Control Grid Voltage for Cut-off	-40 ± 50%		Volts
Control Grid, Peak-to-Peak Signal Voltage	25	25	Volts

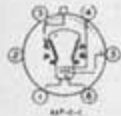
CAPACITANCE:

Control Grid to all other Elements	12	μf
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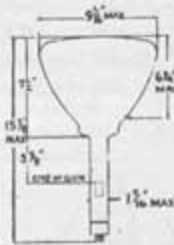
9CP4

Short Nine Inch Videotron

INDIRECTLY HEATED CATHODE
HEATER VOLTAGE: 2.5 Volts
HEATER CURRENT: 2.1 Amps.
ELECTROMAGNETIC DEFLECTION AND FOCUS



PIN No. 1—Heater
PIN No. 2—No Connection
PIN No. 3—Internal Connection
PIN No. 4—Control Grid
PIN No. 5—Cathode
PIN No. 6—Heater
CAP—Anode



CHARACTERISTICS:

High-Voltage Anode	7000	Volts
Control Grid Voltage	Never Positive	Volts
Fluorescent Screen Input Power Per Sq. Cm.	10 max.	Milliwatts
Fluorescent Color	White	

TYPICAL OPERATION:

Anode Voltage	6000	7000 max.	Volts
Control Grid Voltage	Adjust for Suitable Luminous Spot		
Control Grid Voltage for Cut-off	-75 ± 50%		Volts
Control Grid, Peak-to-Peak Voltage	25	25	Volts

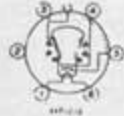
CAPACITANCE:

Grid to Cathode	12	μf
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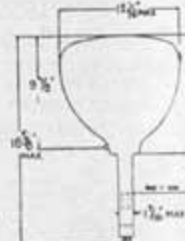
12CP4

Short Twelve Inch Videotron

INDIRECTLY HEATED CATHODE
HEATER VOLTAGE: 2.5 Volts
HEATER CURRENT: 2.1 Amps.
ELECTROMAGNETIC DEFLECTION AND FOCUS



PIN No. 1—Heater
PIN No. 2—No Connection
PIN No. 3—Internal Connection
PIN No. 4—Control Grid
PIN No. 5—Cathode
PIN No. 6—Heater
CAP—Anode



CHARACTERISTICS:

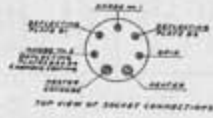
High-Voltage Anode	7000 max.	Volts
Control Grid Voltage	Never Positive	Volts
Fluorescent Screen Input Power Per Sq. Cm.	10 max.	Milliwatts
Fluorescent Color	White	

TYPICAL OPERATION:

Anode Voltage	6000	7000	Volts
Control Grid Voltage	Adjust for Suitable Luminous Spot		
Control Grid Voltage for Cut-off	-75 ± 50%		Volts
Control Grid, Peak-to-Peak Voltage	25	25	Volts

CAPACITANCE:

Grid to Cathode	12	μf
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TYPE 2002		2030-2031	
Two Inch Videotron		Monotron	
INDIRECTLY HEATED CATHODE		INDIRECTLY HEATED CATHODE	
HEATER VOLTAGE: 6.3 Volts		HEATER VOLTAGE: 2.5 Volts	
HEATER CURRENT: 0.6 Amps.		HEATER CURRENT: 2.1 Amps.	
ELECTROSTATIC DEFLECTION			
High Voltage Anode (No. 2)	600 max.	Volts	
Focusing Anode (No. 1)	175 max.	Volts	
Control-Grid Voltage	Never Positive	Volts	
Cut-off Grid Voltage*	-60 ± 30%	Volts	
Fluorescent Screen Input			
Power Per Sq. Cm.	10 max.	Milliwatts	
Fluorescent Color	Green		
Overall Length	7-7/16" ± 3/16"		
Maximum Diameter	2-1/16"		
Base	Octal 8 Pin		
TYPICAL OPERATION:			
Anode No. 2 Voltage	400	600	Volts
Anode No. 1 Voltage	100	150 approx.	Volts
Grid Voltage	Adjust for Suitable		Luminous Spot
Deflection Sensitivity			
Plates D1 and D2	0.28	0.19	MM/Volt D. C.
Plates D3 and D4	0.33	0.22	MM/Volt D. C.
CAPACITANCE:			
Grid-to-all-other-Elements	8.0 max.		μμf
BASING			
PIN No. 1—Anode No. 2, Deflecting Plates D2 & D4			
PIN No. 2—Heater and Cathode			
PIN No. 3—Anode No. 1			
PIN No. 4—Deflecting Plate D1			
PIN No. 5—Grid			
PIN No. 6—Deflecting Plate D3			
PIN No. 7—Heater			
PIN No. 8—No Connection			
		 <p>TOP VIEW OF SOCKET CONNECTIONS</p>	
		748-0-0	
ELECTROSTATIC DEFLECTION			
CHARACTERISTICS:			
High-Voltage Anode (No. 2)	1000 max.	Volts	
Focusing Anode (No. 1)	400 max.	Volts	
Grid Voltage for Cut-off	-30 ± 50%	Volts	
Signal-Plate Voltage			
measured from Anode No. 2	-150 max.	Volts	
Signal-Plate Input Power	5 max.	MW/Sq. Cm.	
Signal Output (Plate to Plate)	0.61	MA.	
Deflection Sensitivity:			
D1 & D2	0.27	MM/Volt D. C.	
D3 & D4	0.30	MM/Volt D. C.	
Picture Detail	300	Lines	
TYPICAL OPERATION:			
Anode No. 2 Voltage	900	Volts	
Anode No. 1 Voltage	250	Volts	
Grid Voltage	Adjust to Give Desired Output		
Signal-Plate Voltage			
measured from Anode No. 2	-70	Volts	
CAPACITANCE:			
Grid-to-all-other-Elements	9		μμf

Data sheets from 1943 Radio Troubleshooter Handbook

Courtesy of Ross Stovall