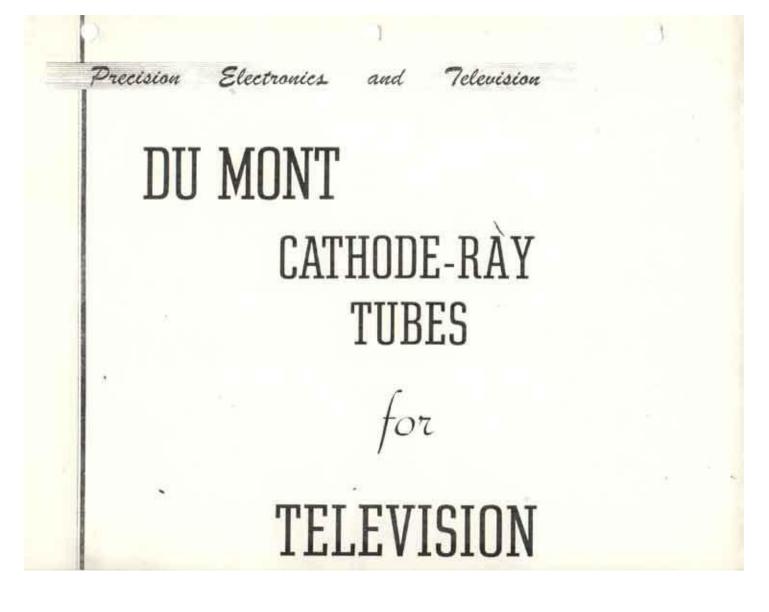
This was published immediately after World War Two



Type 5BP4

A standard 5" cathode-ray tube, electrostatic deflection and focus, having a face radius of 8". The useful picture area is approximately 3 x 4 inches. Normal Esg = 2000 volts. Suitable for very low cost receivers.

MECHANICAL CHARACTERISTICS

Overall Length Maximum Diameter Base Basing

 $\begin{array}{l} 16.3/4^{*}\pm 3/8^{*} \\ 5.4/1^{*}\pm 1/16^{*}, -3/32^{*} \end{array}$ Medium Magnal RMA Basing Designation 11A

TYPICAL OPERATION

Heater Voltage Anode No. 2 Voltage $(E_{i,2})$ Anode No. 1 Voltage $(E_{i,1})$ for focus when $V_{i,1}$ is "5% of cut-off value Griel Voltage for beam cut-off $(E_{i,1})$ 60 E 12480 141 Deflection Factor 61

D,D. D.D.

Type 5CP4

57

A standard 5" cathode-ray tube, electrostatic deflection and focus, having a tax radius of 8". The useful picture area is approximately $\pm x \pm {\rm mches}$. Normal Lagrangian for the second statement of the second statement = 2000 volts. Intensifier $E_{00}=4000$ volts. The brilliance is much better in the 5CP than in the 5BP, under normal operating conditions, by reason of the intensifier

MECHANICAL CHARACTERISTICS

Length	997-1971-1980-1981-1981-1981-198	16.171 ± 1
m Diameter		3.1717 2 3
		Medium 12 Pr RNIA Baring
TYPICAL	OPERATION .	

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Heater Voltage Anode No. 3 Voltage (E_{tab}) Anode No. 2 Voltage (E_{tab}) Anode No. 1 Voltage (E_{tab}) Anode No. 1 Voltage (E_{tab}) for locus when E_{tab} is "5"- of cut-off value Grid Voltage for beam cut-off (E_{tab})		0.5 1500 1500 441 -45	0.3 1000 1300 431 13	
Defection Factor D ₁ D ₂ D ₃ D ₄	6	55 48	121	

Overall Length

Base

Basing

Maximum Diameter

Type 5904

A standard 5" cathode-ray tube, magnetic deflection and focus, having a rela tively flat face, 24" radius. The useful picture area is approximately 5x4 inches. Normal E. = 4000 to 7000 volts.

MECHANICAL CHARACTERISTICS

Overall Length	11.1/8° + \/8 ⁶
Maximum Diameter	-1-15/16" ± 5/52"
Base	Medium Octal 8-Pin
thusing.	RMA Daving Designation 5AN

TYPICAL OPERATION

Anode Voltage (E _n)	
Second Grid Voltage (E.s)	
Negative Grid Voltage (F.1) for beam cut-off	
Gral Drive) from cutoff (at 1 _b = 200 µa.	



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Type 7BP4

A standard 7" cathode-ray tube, magnetic deflection and focus, having a face radius of 24". The useful picture area is approximately $3 \times 5 \times 5/8$ inches. Normal $E_0 = 4000$ m 7000 voles. It is anticipated that a new 7" tube type incorporate ing certain mechanical changes will supersede the 7BP for television applications if relevision demands warrant full scale production.

MECHANICAL CHARACTERISTICS

Overall Length Maximum Diameter Base Baying

11-1/1" = 1/8" + 1/2" Medium Octal 8-Pin RMA Basing Designation 5AN

TYPICAL OPERATION

Hauts Volame Abouls Voltage (P.) Second Circl Veltage 1. Negative Grid Voltage (Fig) for beam curvell Gral Drive (from cut off c at In = 200 au

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Type K1018P4

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A 7" cathods-ray tube, electrostatic deflection and focus, specifically for television receivers, having a face radius of 15". The useful picture area is approximately 4 s 5-3/8 mehes. Normal Epg 2500-5000 volts. This tabe lends itself reality to quantity production methods hence low costs. It is of the electrostatic type and is designed to give good brilliance and spot size at low accelcrasing voltage, 3000 volts. It is intended primarily for use in low cost tele vision receivers.

MECHANICAL CHARACTERISTICS

100

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5.10

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Overall Length Maximum Diamiter Base Basing

TYPICAL OPERATION

10.1/2" 1_3/8" ··· ± 1/8* Meslium Magnal RMS Boring Discommon 11A

700 wollra-

Heater Voltage Anode No. 2 Voltage $(E_{\rm hg})$ Anode No. 1 Voltage $(E_{\rm hg})$ for toxor when $E_{\rm e4}$ is "5% of out-off value Grid Voltage for beam out-off $(E_{\rm e4})$ Deflection Factor

D₁D₂ $D_2 D_4$

Type K1007P4

A developmental model of the Television Industry's standard 10" valuesh-ray tube, using the latest envelope, magnetic deflection and focus, having a face radius of 42". The useful picture area is approximately 6 x 8 inches. Normal $E_{\rm b}=8000$ volts. This tube likewise lends itself readily to quantity production methods, hence low costs and is destined to become a popular type for medium priced television receivers.

Overall Length Maximum Diameter Baie Baiing

MECHANICAL CHARACTERISTICS $\frac{10.577}{10.172} \pm 1/2^{\circ}$ Missium Chiral Softia-RMA Baung Designation 5AN

TYPICAL OPERATION

Heater Voltage Anode Voltage (E₁) Second Grid Voltage $\{E_{i,j}\}$ Negative Grid Voltage $\{E_{i,j}\}$ for beam curvel *Those are developmental time types, the design details of which are subject to change



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Type K1003P4

A modified 12" cathode-ray tube, electrostatic deflection and focus, having a face radius of 20". The useful picture area is approximately $0.5/8 \times 8.7/8$ inches. Normal $E_{\rm eff}=4500$ volts. Intensifier $E_{\rm eff}=8000$ volts. Having a flatter screen and generally improved performance, it is primarily intended to replace the 14AP4 used in prewar television receivers.

Overall Length Maximum Diameter Base Basing

MECHANICAL CHARACTERISTICS 23.5" ± 17 C 12" ± 1/8" 1.2 contact peripheral Du Mont Dwg. DD-2664-A TYPICAL OPERATION

15 Heater Voltage 5000 Intensition Destrode potential (Eps) Accelerating Electrode potential (Ehr) 5000 Focusing Electrode potential (En) for focus when E., is 75% of cut off value 1175 Control Electrode potential (E_{c1}) for beam cut-off -100 Deflection lattor D,D.

D.D.

Grid Drive for In = 200 au



Type 12DP4

A standard 12" cathode-ray rube, magnetic deflection and tocus, having a face radius of 20". The useful picture area is approximately 6-5 8 x 8-7 8 inches Normal En = 1000 to 7000 volts. For direct viewing television receivers either the 12DP4 or the K1005P4 are decided improvements over previous direct viewing tubes of this size.

MECHANICAL	CHARACTERISTICS
	NULLING A

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Diameter	1.27 21 1/10-
	Mediani Octal JoPor
	RMA Basing Designation SAN

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TYPICAL OPERATION

Heater Voltage Anode Voltage (E ₀)	
Second Grid Voltage (E.	
Negative Grid Voltage (E_)	for beath cut-off
THE PART OF THE PA	A SALE AND A
Gral Drive for $L = 200 \mu a$	

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N		Aville Inces	



Overall Len Maximum I Base Basing

A 20° cathode-ray rube, using the latest envelope, with a face radius of 50 inches and magnetic deflection and focus. The useful picture area is approximately 12 x 16 inches. Normal E. = 10,000 to 15,000 todis. This tube is designed for direct viewing, large screen television receivers of the deluxe class.

MECHANICAL CHARACTERISTICS

Overall Length Maximum Diameter Hase Basing

19-57X" = 1/17 2117 ± 1/35" Medone Gand > Pm RMA Bason Designation "AN

TYPICAL OPERATION

Heater Voltage Anode Voltage (En) Second Grid Voltage $(E_{i,1})$ Negative Grid Voltage $(\tilde{E}_{i,1})$ for beam cut-off Grid Drive (at In = 200 pa.)

* These are developmental rule types, the design details of which an subject to change

A 15" eathode-ray tube with magnetic deflection and focus is now in developmental stages. The succlasms al and electried characteristics of this tube will be published at a later date and furnished as an addendum to this publication



-5. William