



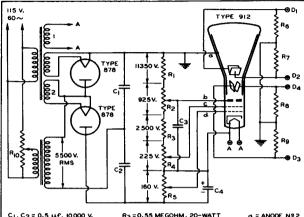
HIGH-VACUUM CATHODE-RAY TUBE

HIGH-INTENSITY ELECTROSTATIC-DEFLECTION TYPE
WITH 5" MEDIUM-PERSISTENCE SCREEN FOR OSCILLOGRAPHIC USE

Heater Coated	Unipotentia	Catho	de		
Voltage	2.5		a-c	or d-c	volts
Current	2.1				amp.
Fluorescent Screen:					
Material			F	hos pho	r No.1
Pattern Color					enish
Direct Interelectrode	Canacitances			_	
Grid to all other el		•	14	max.	μμf
DJ; to DJ2	8011 0005			max.	μμf
DJ3 to DJ4				max.	μμf
Overall Length				-1/2" :	
Maximum Diameter		5–1	/4" + 1	/16" -	3/32"
Bulb					Ĵ -4 2
Caps:					•
Anode No.2				Medium	Metal
Deflecting Electrode	s (Four)				Metal
Base		N	ledium 5	5-Pin M	icanol
	BOTTOM VI	EW			
Pin 1 - Heater			Cap)	Defle	tina
Pin 2-Grid No.2	• •		Over (Elect	
Pin 3 - Anode No.1	P2,3,D,	Ji I	Pins []	DU	
Pin 4 - Grid No.1	J40 (5 7)		1 & 5)	l *	-
Pin 5 - Heater,	AT IT			Defle	
Cathode	9		Over_} .	{ Elect	
Single Medium Cap -			Pin 2J	[DJ3	
Anode No. 2	000			Deflec	
Cap \ Deflecting	2		Over } · Pin 4	{ Elect	
Over } Electrode Pin 3 DJ1			F181 4)	(1004	
1					
MAXIMUM RATINGS and TYPICAL OPERATING CONDITIONS					
Maximum Ratings Are Based	on a Line-Volt	age Desi	gn Centei	r of 117	Volts
High-Voltage Electrode	(Anode #2)	Voltage	15000	max.	volts
Focusing Electrode (An		age -	4500	max.	volts
Accelerating Electrode		oltage	250	max. r posit	volts
Control Electrode (Gri	d ∦1) Voltag	e	Neve	r posit	tive
Grid Voltage for Curre	nt Cut—off *		-125	approx.	volts
Peak Voltage Between A					• •
any deflecting e	lectrode		7000	max.	volts
Typical Operation:		_			• .
Heater Voltage	2.5	2.5			volts
Anode #2 Voltage	5000	10000			volts
Anode #1 Voltage	1000	2000	3000	approx.	
Grid #2 Voltage	250	250	250		volts
Grid #1 Voltage A Deflection Sensitivi	djusted to g	ive sui	table l	UM I DOUS	spot
DJ1 to DJ2	0.083	0.041	0.020	mm/volt	4 6
D3 to D4	0.102	0.051		mm/valt	
1. 203 10 204	0.102	0.001	0.004		
* With maximum voltages on Anode #1 and Grid #2.					
- Indicates a change.					



TYPICAL OSCILLOGRAPH CIRCUIT USING THE 912 WITH VOLTAGE-DOUBLING POWER SUPPLY



 $C_1, C_2 = 0.5 \,\mu f$, 10 000 V. $C_3 = 1.0 \,\mu f$, 5000 V.

9/2

R₃=0.55 MEGOHM, 20-WATT R₄=50000 OHMS, 2-WATT R₅=35000 OHMS, 2-WATT

b = ANODE Nº 1 C = GRID Nº 2

C4 = 16 µf, 200 V. R₁ = 2.5 MEGOHMS, 75-WATT R₂ = 0.2 MEGOHM, 10-WATT

R6, R7, R8, R9 = 2 TO 5 MEGOHMS RIG = 100 OHMS, 600-WATT d = GRID Nº 2

NOTE: AS THE TOTAL VOLTAGE ACROSS THE BLEEDER IS REDUCED BY MEANS OF R₁₀. THE ELECTRODE VOLTAGES ARE REDUCED IN CORRECT PROPORTION, EXCEPT FOR GRID NO.2 VOLTAGE; THIS MAY HAVE TO BE READJUSTED BY THE USE OF DIFFERENT VALUES FOR R₂ AND R₃. THEIR TOTAL RESISTANCE BEING KEPT THE SAME. CONDENSERS C₃ AND C₄ CAN BE OMITTED IF GRID-VOLTAGE SWITCHING (FOR HIGH-SPEED PROTOGRAPHY) IS NOT CONTEMPLATED. FILAMENT WINDINGS NOS. 1 and 2 SMOLD BE INSULATED FOR 2000D VOLTS.

The license extended to the purchaser of tubes appears in the License Notice accompanying them. Information contained herein is furnished without assuming any obligations.

92C-4621R1

FLUORESCENT-SCREEN CHARACTERISTICS

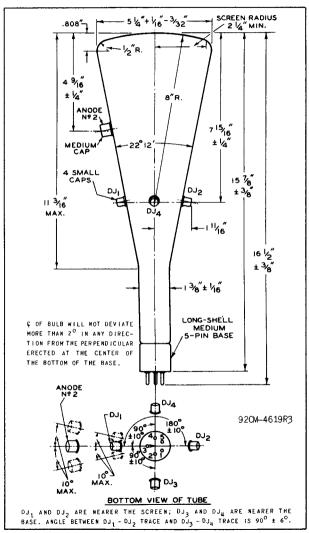
CURVES SHOWING THE AVERAGE CHARACTERISTICS, SPECTRAL ENERGY CHARACTERISTIC, AND PERSIST-ENCE CHARACTERISTIC OF PHOSPHOR NO. I ARE SHOWN AT THE BEGINNING OF THIS SECTION.

→Indicates a change.

AUG. 15, 1946



2/2 HIGH-VACUUM CATHODE-RAY TUBE







AVERAGE CHARACTERISTICS

