5VP7 CATHODE RAY TUBE

Radio Valve Company of Canada Limited April 1948

The 5VP7 is an electrostatic focus and electrostatic deflection tube for oscillograph applications. Other features are a zero first anode current electron gun, and a clear region in the bulb cone.

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GENERAL CHARACTERISTICS	Electrical			
Heater voltage		6.3 ± 10% v	rolts	
Heater current		0.6 <u>+</u> 10% e		
Focusing method		Electrostati	ie	
Deflecting method			Electrostatic	
~				
Phosphor		P7		
Fluorescence Phosphorescence		Blue		
Persistence		Yellow	Long	
		Totta		
	le capacitances, approx.			
Grid to all oth	er electrodes	8 uuf		
D1 to D2		l uuf		
D3 to D4	1	l uuf		
	electrodes except D2	8 uuf		
D2 to all other electrodes except D1 D3 to all other electrodes except D4		8 uuf		
	electrodes except D3	10 uuf 8 uuf		
Mechanical	erectrodes except bo	o uui		
Overall length		3 C 72 / A ± 73 / C) inches	
Minimum useful screen diameter			16 3/4 ± 3/8 inches 4 1/2 inches	
Base			Medium shell magnal ll pin	
Basing		11 N	. waguar ar bin	
Base alignment				
	is with pin 1 and tube a	xis ± 10 degrees.	•	
	ge on Dl deflects beam a			
	ge on D3 deflects beam a			
	ign center values)	05.00	11 - DA	
Anode No. 2 voltage			2500 max. volts DC	
Anode No. 1 voltage Grid voltage			1000 max. volts DC - 125 to 0 volts	
Peak voltage between Anod	le No 9 and any	= 120 to 0 t	0105	
-	cing electrode	500 max. vol	lta	
401200	7116 0100 VI 040	OU Mass		
TYPICAL OPERATING CONDITIONS				
Anode No. 2 voltage	1500	2000	volts DC	
Anode No. 1 voltage for		315 to 562	volts DC	
Grid voltage (1)	-15 to -45	-20 to -60	volts DC	
D1 and D2 deflection fact D3 and D4 deflection fact		70 to 98 63 to 89	volts DC/inch volts DC/inch	
		90 10 03	AOTES DO INCH	
Anode No. 1 current for any operating condition			-50 to +10 microamperes Within 15 mm. square	
Spot position (2)		Within 15 mm		
MAXIMUM CIRCUIT VALUES				
Grid circuit resistance		1.5 max. meg	zohms	
			zohms	

Resistance in any deflecting electrode circuit (3) 5.0 max. megohms

- 1. For visual extinction of undeflected focused spot. NOTES
 - 2. Connect free deflecting electrodes to Anode No. 2.
 - 3. It is recommended that the deflecting electrode circuit resistances be approximately equal.

