

engineering data service

SYLVANIA
5ZP15
5ZP*

CHARACTERISTICS

GEN	ER	AT.	D	ATA
	LIL.		~	

Focusing Me Deflection M Deflection A Types*	eth	od				· ·						Electrostatic . Magnetic 40 Degrees
71				5	ZP1	5		5	ZP	16		5ZP24
Fluorescen	ce			Blu	e-Gı	reen	V			Ne iolet		Blue-Green
Persistence			٠		rem Shor				ren Sho:	nely rt		Extremely Short
Screen												Aluminized
Faceplate .		•	•	٠		٠				Clea	r, N	Non-Browning

^{*}In addition to the types shown, the 5ZP- can be supplied with several other screen phosphors.

ELECTRICAL DATA

Heater Voltag Heater Curren	ıt .											.6 ±	6.3 10%	Volts Ampere	
Direct Interel	ectroc	de C	lapa	citai	nces	(a)	ppro	x.)							
Cathode	to Al	1 Ot	her	Ele	ctro	des		. ´					8	$\mu\mu\mathrm{f}$	
Grid No	. 1 to	· All	l Ot	her	Ele	ctro	des						5	$\mu\mu f$	
External	Cond	lucti	ve I	Necl	k C	oati	ng to	A	noc	le1				μμf	Max.
													100	nuf	Min.

MECHANICAL DATA

Minimum Useful Screen Diameter				$4\frac{1}{4}$ Inches
Bulb Contact (Recessed Small Cavity Cap)				J1-21
Base (Small Shell Duodecal 7-Pin)				B7-51
Basing				
Bulb Contact Aligns with Vacant Pin				
Position No. 3		٠		±10 Degrees

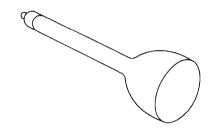
RATINGS

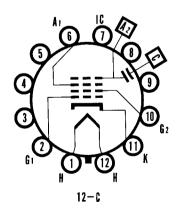
MAXIMUM RATINGS (Absolute Maximum Values)

Anode No. 2 Voltage	. 30,000	Volts dc									
Anode No. 1 Voltage (Focusing Electrode)	. 7,700	Volts dc									
Grid No. 2 Voltage											
Grid No. 1 Voltage											
Negative Bias Value	. 165	Volts dc									
Positive Bias Value	. 0	Volts dc									
Positive Peak Value	. 2	Volts									
Peak Heater-Cathode Voltage											
Heater Negative with Respect to Cathode											
During Warm-up Period											
Not to Exceed 15 Seconds 450 Volts											
After Equipment Warm-up Period	165	Volts									
Heater Positive with Respect to Cathode		Volts									

QUICK REFERENCE DATA

Flying Spot Scanner Tube
5" Round Glass Type
Flat Faceplate
Clear Non-Browning Faceplate
Magnetic Deflection
Acceleration Type Electrostatic
Focus
No Ion Trap
External Conductive Coating on
Neck
External Insulating Coating on
Bulb
Aluminized Screen





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE DIVISION
SENECA FALLS, NEW YORK

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TYPICAL OPERATING CONDITIONS

Anode Voltage ²					27,000 Volts	dc
Anode No. 1 Voltage for Focus at Ib = 15 μa .					5550 to 7050 Volts	dc
Grid No. 2 Voltage					200 Volts	dc
Grid No. 1 Voltage Required for Cutoff ³					-42 to -98 Volts	dc
Anode Current					15 μa	dc
Maximum Anode No. 1 Current at Ib = 15 μ a					25 μa	dc
Grid No. 2 Current					-15 to -15 µa	dc

CIRCUIT VALUES

NOTES:

- 1. External conductive neck coating must be grounded.
- 2. Brilliance and definition decrease with decreasing anode voltage. In general, the anode voltage should not be less than 20,000 volts.
- 3. Visual extinction of undeflected focused spot.

DIAGRAM NOTES:

- 1. Reference line is determined by the plane C-C' of the reference line gauge (JETEC No. 110) when the gauge is resting on the glass cone.
- 2. External conductive coating must be grounded.

WARNING:

X-ray radiation shielding may be necessary to protect against possible danger of personal injury from prolonged exposure at close range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,000 volts, whichever is less.

