

ELECTRONIC TUBE REFERENCE

7295A

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CAMERAPICKUP

High-quality 4.5-inch image-orthicon television camera tube for black-and-white studio and outdoor pickup. Magnetic focusing and deflection scan the photoelectron image to produce a sensitive television video signal.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 CameraPickup
<i>No fixed ratings recorded.</i>
<i>Published maximum ratings and characteristics audited; remaining numeric data retained densely in parameter table.</i>

High-quality 4.5-inch image orthicon for black-and-white studio and outdoor television pickup with magnetic focus and deflection.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1940 RCA

Section 1 · CameraPickup

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal value
Heater or filament current	600 mA	Published nominal/aggregate value
Focusing method	Magnetic	Published
Deflection method	Magnetic	Published

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	High-quality black-and-white studio/outdoor pickup	Published



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 NEC

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 NEC

Section 1 · CameraPickup

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage [1]	6.3 V	Heater Voltage 6.3 + 10Z volts
Heater Voltage [2]	10 V	Heater Voltage 6.3 + 10Z volts
Heater Current	600 mA	Heater Current 0.6 ampere
Wavelength of Maximum Response [1]	4500	Wavelength of Maximum Response 4500 + 300 angstroms

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Wavelength of Maximum Response [2]	300	Wavelength of Maximum Response 4500 + 300 angstroms
Focusinz-Coil Length	381	Focusinz-Coil Length 381 mm
Grid-No	6 V	Grid-No.6 Voltage (Image Focus) [
Approx [1]	50	Approx. 50% of photocathode vOltagé;..... -250 to -300 volts
Approx [2]	-250	Approx. 50% of photocathode vOltagé;..... -250 to -300 volts
Approx [3]	-300	Approx. 50% of photocathode vOltagé;..... -250 to -300 volts
Grid-No [1]	5 V	Grid-No.5 Voltage (Deceleractor) e.eeeeeessesecees 40 volts
Grid-No [2]	40 V	Grid-No.5 Voltage (Deceleractor) e.eeeeeessesecees 40 volts
Crid-No [1]	4 V	Crid-No.4 Voltage (Beam FOCUS) eeceeseeceesessseass 70 to 90 volts
Crid-No [2]	70 V	Crid-No.4 Voltage (Beam FOCUS) eeceeseeceesessseass 70 to 90 volts
Crid-No [3]	90 V	Crid-No.4 Voltage (Beam FOCUS) eeceeseeceesessseass 70 to 90 volts
Grid-No [1]	3	Grid-No.3 Voltagé~;.....;..... 250 to 275 volts
Grid-No [2]	250	Grid-No.3 Voltagé~;.....;..... 250 to 275 volts
Grid-No [3]	275	Grid-No.3 Voltagé~;.....;..... 250 to 275 volts
Grid-No.l Voltage for Picture Cutoff e.... = [1]	45 V	Grid-No.l Voltage for Picture Cutoff e.... =45 to 115 volts
Grid-No.l Voltage for Picture Cutoff e.... = [2]	115 V	Grid-No.l Voltage for Picture Cutoff e.... =45 to 115 volts
Dynode=No [1]	2 V	Dynode=No.2 Voltage «c.esescceassocveccasaasass H00 volts
Dynode=No [2]	0 V	Dynode=No.2 Voltage «c.esescceassocveccasaasass H00 volts
Dynode-No [1]	3 V	Dynode-No.3 Voltage seceveen P <10 0 volts
Dynode-No [2]	10 V	Dynode-No.3 Voltage seceveen P <10 0 volts
Dynode-No [3]	0 V	Dynode-No.3 Voltage seceveen P <10 0 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Dynode-No [1]	5 V	Dynode-No.5 Voltage svoceveeeseorssonnscnscnsasss 1200 volts
Dynode-No [2]	1200 V	Dynode-No.5 Voltage svoceveeeseorssonnscnscnsasss 1200 volts
hnode Voltage eeeceennns crsecvasetssvenceseceses	1250 V	hnode Voltage eeeceennns crsecvasetssvenceseceses 1250' volts
Target Temperature RENZE «.ececvcsrcsesesosnnnss ~\$ [1]	5	Target Temperature RENZE «.ececvcsrcsesesosnnnss ~\$5 to 45 °C
Target Temperature RENZE «.ececvcsrcsesesosnnnss ~\$ [2]	45	Target Temperature RENZE «.ececvcsrcsesesosnnnss ~\$5 to 45 °C
In plane of photocathode (APProX.) weeeeeceeee	120	In plane of photocathode (APProX.) weeeeeceeee... 120 gaussses
Signal~Output Current [1]	10 A	Signal~Output Current 10 40
Signal~Output Current [2]	40 A	Signal~Output Current 10 40
## With respect to grid No	4	## With respect to grid No.4.
o The target suppl& voltage should be adjustable from [1]	-5 V	o The target suppl& voltage should be adjustable from -5 to +5 volts.
o The target suppl& voltage should be adjustable from [2]	5 V	o The target suppl& voltage should be adjustable from -5 to +5 volts.
located outside of and at the	1	located outside of and at the 1image end of the focusing coil.