Products

Technical Specifications - 14" CPT - JCTEL A34JRH61X

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 Electrical Data 			
Electron Gun	Unitized (one piece) triple aperture electrodes, Centre Beam (Green), Side beam (Blue, Red)	Heater Current at 6.3 volts	320 mA
Focusing Method	Electrostatic	Focussing Lens	High-focus Bi- Potential
Convergence Method	Magnetic	Deflection method	Magnetic
D A (Approx.): Diagonal	90 deg	DA - DIEC (Approx.): Grid No.1 to all other electrodes	9 pF
DA - DIEC (Approx.):A1I Cathodes to all other electrodes	7 pF	DA - DIEC (Approx.): Grid No.3 to all other electrodes	4 pF
External conductive coating to anode	800 min. pF	-	-

Note: DA = Deflection Angles DIEC = Direct Inter Electrode Capacitance

Optical Data

Light transmission at centre (approx.)	57%	Screen on inner surface of face plate	Aluminized, Tricolor, Phosphor Stripe, Hybrid Type Black Stripe Screen
Phosphor (three separate phosphor collectively)	P22 New Rare Earth (Red) Sulphide(Blue & Green) Type	Arrangement	Vertical line Trios
Spacing* : Horizontal Centre	0.70 mm 0.028 in	Spacing* : Side	0.82 mm 0.032 in
Spacing* : Vertical	0.63 mm 0.025 in	-	-

Note : *Spacing = Spacing between centres of adjacent stripe trios (approx.)

Mechanical Data

Overall length	332.4 ± 6.5 mm 13.09 ± 0.26 in	Screen: Diagonal (projected)	335.4 mm 11.06 in
Screen: Horizontal axis	280.8 mm 11.06 in.	Screen: Vertical axis	210.6 mm 8.29 in.
Screen - Area	580 cm? (90 sq. in.)	Base Designation	See 3284PS 0540-901-12
Bulb: Contact Designation	Recessed Small Cavity Cap (JEDEC No. J1-21 {D})	Bulb: Funnel	JEDEC No. (EIAJ J370BLI)
Bulb: Panel	JEDEC No. (EIAJ J370CVI)	Pin Position Alignment	Pin No.1 aligns approx.with anode contact
Implosion Protection	Banded Type	Weight (Approx.)	6.0 kg (13.2 lbs)

Ratings

(Design –Maximum Values)

Unless otherwise specified, voltage values are for each Gun and values are positive with respect to Cathode.

Anode Voltage	25,000 max. volts 16,000 min. volts.	Total Anode Current, Long-term Average	700 max. micronA
Grid No.3 (Focusing Electrode)	7,500 max.volts	Peak grid No.2 voltage, including video signal Voltage	1,000 max.volts
CV: Positive Bias Value	400 max. volts	CV: Positive Operating Cut-off Value	200 max. volts
CV: Negative Bias Value	0 max. volts	CV: Negative Peak Value	2 max. volts
Heater Voltage (AC or	6.9 max. volts rms	Surge of heater	9.5 max. volts rms

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DC)	5.7 min. volts rms	Voltage (within 100 msec.)	
PHCV: Heater negative with respect to Cathode	200 max. volts	PHCV: Heater positive with respect to Cathode: AC component	200 max. volts
PHCV: Heater positive with respect to Cathode: DC component	0 max. volts	Peak Heater – Heater Voltage (Operating with pulse of F.B.T)	22 max. volts

NOTE: * CV = Cathode Voltage **PHCV = Peak Heater-Cathode Voltage

• Examples of Use of Design Ranges

Unless and other specified voltage values are for each gun and are positive with respect to Cathode.

Anode Voltage	22,000 volts	Grid No.3 (focussing electrode)	5,720 to 6,600 volts
Grid No.2 voltage when circuit design utilizes Cathode voltage of 160	460 to 820 volts (for visual extinction of focussed spot)	Heater Voltage - Under operating condition	6.3 volts rms

volt

Note: For maximum cathode life, it is recommended that the heater supply may be regulated.

Yoke Data

Electrical Data (Type – IV)	
Horizontal Deflection coils: Inductance (at 1Vrms and 1KHz)	$2.49~\pm~5~\%$ mH
Horizontal Deflection coils: Resistance (at 20° C)	$3.37~\pm$ 10% ohm
Vertical Deflection coils: Inductance (at 1Vrms and 1 KHz)	24.3 \pm 7 % mH
Vertical Deflection coils: Resistance (at 20° C)	12.9 \pm 10 % ohms
Peak Pulse voltage across horizontal coils at 15.750 Hz. for a pulse duration of 12 micron sec	1400 max. V
Peak Pulse voltage across vertical coils at 50 Hz. for a pulse duration of 0.7 micron sec	200 max. V
Peak Pulse voltage including DC component between horizontal and vertical coils	1400 max. V

Sagital Heights and Mounting Lug Height

One of the four Mounting Lugs may deviate (2.0 mm max.) from the place of the other three within the 2.0 mm tolerance. This deviation is incorporated in the 2.0 mm tolerance.