

HITACHI PICTURE TUBE

12AZP4

110° Deflection Squared Corner Type

The Hitachi 12AZP4 is a directly viewed, squared corner type rectangular 12" glass picture tube having aluminized screen 7-11/16"×9-13/16" with nearly area of 71 square inches.

The 12AZP4 features an envelope having relatively flat, compound radius faceplate that minimizes the obstruction of outer light reflection and make the picture clearer.

Other design features of the 12AZP4 include a very short electron gun that minimizes deflection distortion and requires no ion trap magnet; a neck diameter of 1-1/8"; and "neoeighter" 7-pin base of the integral glass button type having straight through leads fitted with an indexing plug.

ELECTRICAL DATA

Focusing Method	Electrostatic
Deflection Angles (approx.)	
Horizontal.....	101 Degrees
Vertical.....	82 Degrees
Diagonal	110 Degrees
Direct Interelectrode Capacitances	
Cathode to All Other Electrodes (approx.)	5 μ f
Grid No. 1 to All Other Electrodes (approx.)	6 μ f
External Conductive Coating to Anode.....	900 μ f max.
	400 μ f min.
Heater Characteristics	
Heater Voltage	6.3 Volts
Heater Current	0.6 Amperes
Heater Warm up Time	11 Seconds

OPTICAL DATA

Phosphor Number.....	P4-Sulfide Type, Aluminized
Light Transmittance at Center (approx.)	78 Percent

MECHANICAL DATA

Overall Length	9-5/16±1/4 Inches
Minimum Useful Screen Dimensions (projected)	
Diagonal.....	11-5/16 Inches
Horizontal Axis	9-13/16 Inches
Vertical Axis	7-11/16 Inches
Area	71 Sq. Inches
Neck Length	4-1/8±1/8 Inches
Bulb Contact	JEDEC No. J1-21
Base	JEDEC No. B7-208
Basing	.8HR
Bulb Contact Alignment with Pin Position No. 7	30 Degrees
Weight (approx.).....	5.3 Pounds

MAXIMUM RATINGS (Design Maximum Values)

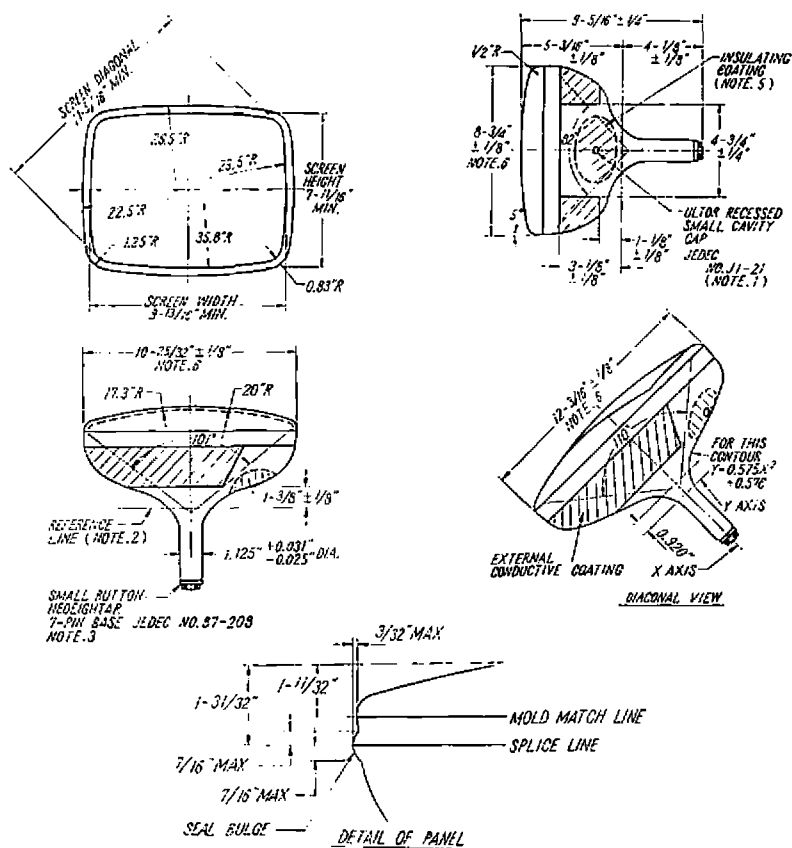
Unless otherwise specified, voltage values are positive and measured with respect to cathode.

Maximum Anode Voltage	14,000 Volts
Minimum Anode Voltage	9,000 Volts
Maximum Grid No. 4 (Focusing Electrode) Voltage	+1,100 Volts
.....	-550 Volts
Maximum Grid No. 2 Voltage	550 Volts
Minimum Grid No. 2 Voltage.....	200 Volts
Grid No. 1 Voltage	
Maximum Negative Value	154 Volts
Maximum Negative Peak Value	200 Volts
Maximum Positive Value.....	0 Volts
Maximum Positive Peak Value	2 Volts
Maximum 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	200 Volts
Heater Positive with Respect to Cathode	200 Volts

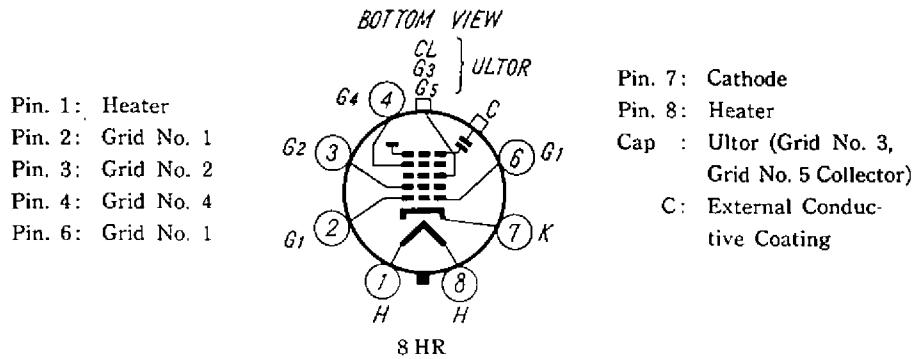
TYPICAL OPERATING CONDITION

Grid Drive Service

Unless otherwise specified, all voltage values are positive with respect to cathode.



SOCKET CONNECTIONS



NOTE 1 : The plane through the tube axis and pin No. 4 may vary from the plane through the tube axis and ultor terminal by angular tolerance (measured about the tube axis) of $\pm 30^\circ$. Ultror terminal is on same side as pin No. 4.

NOTE 2 : With tube neck inserted through flared end of reference-line gauge JEDEC No. 126 and with tube seated in gauge, the reference-line is determined by the intersection of the plane CC' of the gauge with the glass funnel.

NOTE 3 : Socket for this base should not be rigidly mounted; it should have flexible leads and be allowed to move freely. The design of the socket should be such that the circuit wiring cannot impress lateral strains through the socket contacts on the base pins. Bottom circumference of base wafer will fall within a circle concentric with bulb axis and having a diameter of 1-3/4".

NOTE 4 : External conductive coating must be grounded.

NOTE 5 : To clean this area, wipe only with soft dry lintless cloth.

NOTE 6 : Measured at the mold match line.



Head Office: 4, 1-chome, Marunouchi, Chiyoda-ku, Tokyo
 Tel. Tokyo (212) 1111 (80 lines)
 Cable Address: "HITACHY" TOKYO
 Codes: All Codes Used