

JEDEC release #3965A (Jan. 28, 1963) states:

Delete data and substitute statement:  
Type 6095 is the same as type 6AQ5.

TYPE: 6095

SPONSOR: JT-5 COMMITTEE

(JEDEC Committee on  
Low-Power Vacuum Tubes)

BEAM PENTODE

Mechanical Data

Coated unipotential cathode			
Outline drawing . . . . .	5-3	Bulb . . . . .	T 5 1/2
Base . . . . .		E7-1 miniature	button 7-pin
Maximum diameter . . . . .			3/4"
Maximum overall length . . . . .			2 5/8"
Maximum seated height . . . . .			2 3/8"
Pin connections . . . . .			Basing 7BZ
Pin 1 - Grid No. 1		Pin 5 - Plate	
Pin 2 - Cathode, Grid No. 3		Pin 6 - Grid No. 2	
Pin 3 - Heater		Pin 7 - Grid No. 1	
Pin 4 - Heater			
Mounting position . . . . .			Any

Electrical Data

Direct Interelectrode Capacitances (approx.)

Grid to plate: (g1 to p) . . . . .	0.4	μf
Input: g1 to (h + k + g2 + g3) . . . . .	8.0	μf
Output: p to (h + k + g2 + g3) . . . . .	8.5	μf

Heater Characteristics

Heater voltage (ac or dc) . . . . .	6.3 ± 10%	volts
Heater current . . . . .	450	ma
Maximum heater-cathode voltage		
Heater negative with respect to cathode: Total DC and peak . . . . .	200	volts
Heater positive with respect to cathode: DC . . . . .	100	volts
Total DC and peak . . . . .	200	volts

Ratings - Class A<sub>1</sub> amplifier (Design-Maximum)

Maximum plate voltage . . . . .	275	volts
Maximum Grid #2 voltage . . . . .	275	volts
Maximum plate dissipation . . . . .	12	watts
Maximum Grid #2 dissipation . . . . .	2	watts
Maximum Grid #1 circuit resistance		
Fixed bias . . . . .	0.1	megohm
Cathode bias . . . . .	0.5	megohm
Maximum bulb temperature at at any point . . . . .	250	°C

Typical operating conditions and characteristics, Class A<sub>1</sub> amplifier (Single Tube)

Plate voltage . . . . .	180	250	volts
Grid #2 voltage . . . . .	180	250	volts
Grid #1 voltage . . . . .	-8.5	-12.5	volts
Peak A-F Grid #1 voltage . . . . .	8.5	12.5	volts
Zero-signal plate current . . . . .	29	45	ma
Maximum-signal plate current . . . . .	30	47	ma
Plate resistance (approx.) . . . . .	58,000	52,000	ohms

I<sub>G2</sub> Z

Typical operating conditions and characteristics, etc. (Continued)

Transconductance . . . . .	3700	4100	μhos
Load resistance . . . . .	5500	5000	ohms
Maximum-signal power output . . . . .	2.0	4.5	watts
Total harmonic distortion (approx.) . . . . .	8	8	%

Ratings Vertical Deflection Amplifier §, Triode connected (Design-Maximum)

Maximum DC plate voltage . . . . .	275	volts
Maximum peak positive voltage . . . . .	1100	volts
Maximum plate dissipation * . . . . .	10	watts
Maximum peak negative grid No. 1 voltage . . . . .	275	volts
Maximum average cathode current . . . . .	40	ma
Maximum peak cathode current . . . . .	115	ma
Maximum grid circuit resistance (cathode bias) . . . . .	2.2	megohms
Maximum bulb temperature at hottest point . . . . .	250	°C

Average characteristics - Triode connected

Plate voltage . . . . .	250	volts
Grid voltage . . . . .	-12.5	volts
Plate current . . . . .	49.5	ma
Transconductance . . . . .	4800	μhos
Amplification factor . . . . .	9.5	
Plate resistance (approx.) . . . . .	1970	ohms
Grid voltage (approx.) for $I_b = 0.5$ ma . . . . .	-37	volts

§ For operation in a 525 line, 30-frame system as described in "Standards of Good Engineering Practice for Television Broadcasting Stations; Federal Communications Commission." The duty cycle of the voltage pulse not to exceed 15% of a scanning cycle.

\* In stages operating with grid-leak bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.

Refer to "Interpretation of Receiving Tube Ratings"