

from JEDEC release #3965, Nov. 5, 1962

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

BEAM PENTODE

(JEDEC Committee on
Low-Power Vacuum Tubes)

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: (gl to p)	0.4	μuf
Input: gl to (h + k + g2 + g3)	8.0	μuf
Output: p to (h + k + g2 + g3)	8.5	μuf

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 A₁ 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 A₁ 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 G₂ ?

Typical operating conditions and characteristics, etc. (Continued)

Transconductance	3700	4100	μmhos
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	μmhos
Amplification factor	9.5	
Plate resistance (approx.)	1970	ohms
Grid voltage (approx.) for Ib = 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"