

from JEDEC release #3965, Nov. 5, 1962

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

Delete data and substitute statement:
Type 6098 is the same as type 6AR6.

TYPE: 6098

SPONSOR: JT-5 COMMITTEE
(JEDEC Committee on
Low-Power Vacuum Tubes)

General Description

The 6098 vacuum tube is a beam power tetrode designed as a power output tube for sweep circuit amplifiers for cathode-ray oscilloscopes. It has been designed for minimum size and when operated near maximum rating provision should be made for free circulation of air about the bulb. Particular attention has been given toward obtaining a high plate current without the necessity of driving the control grid positive.

Mounting

The dimensions and arrangement of terminal connections are shown in Figure 1. The tube may be mounted in any position.

Heater Ratings

Heater voltage.	6.3 volts, ac or dc
Nominal heater current.	1.20 amperes

Maximum Ratings (Absolute Basis)

	<u>Class A Operation</u>		<u>Class B (R.F.) Operation</u>	
Maximum Plate Voltage	400		630	volts
Maximum Screen Voltage	315		315	volts
Maximum Plate Current	125		60	milliamperes
Maximum Plate Dissipation	21		21	watts
Maximum Screen Dissipation	3.5		3.5	watts
Maximum Heater-cathode Voltage	200		200	volts
Maximum Peak Plate Voltage	---		1250	volts

Operating Conditions and Characteristics

	<u>Tetrode Connected</u>		<u>Triode Connected</u>	
Plate Voltage	250	300	200	volts
Screen Voltage	250	300	200	volts
Control-grid Voltage	-22.5	-36	-12.5	volts
Plate Current	75	58	90	milliamperes
Screen Current	5	4	-	milliamperes
Amplification Factor	113	95	6	
Plate Resistance	21,000	22,000	1000	ohms
Transconductance	5400	4300	6000	micromhos

Interelectrode Capacitances (No External Shield)

Control-grid to Plate (Maximum)	0.8 μ mf
Control-grid to Heater, Cathode and Screen-grid	11 μ mf
Plate to Heater, Cathode and Screen-grid.	7 μ mf

Characteristic Curves

Figures 2 and 3 show characteristic curves for a typical 6098 vacuum tube.

