

Technical Information

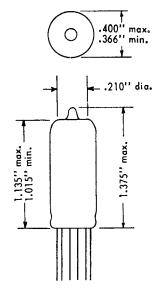
CK7994

SUBMINIATURE TRIODE

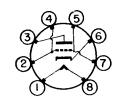
MECHANICAL DATA

ENVELOPE T3 Glass OUTLINE JEDEC (3-1) BASE.....8—Pin Submin. Button (0.017" Tinned Flexible Leads. Length=1.5" Min.) CATHODE . . Coated Unipotential MOUNTING POSITION Any

PHYSICAL DIMENSIONS



BASING



TERMINAL CONNECTIONS

Lead 1 Heater

Lead 2 Grid Number 1

Lead 3 Plate

Lead 4 Grid Number 1

Lead 5 Grid Number 1

Lead 6 Cathode

Lead 7 Grid Number 1

Lead 8 Heater

The CK7994 is a heater-cathode type, high transconductance triode of subminiature construction. The design features of low noise, low interelectrode capacitances featuring low Cp-K+H, and very high transconductance make this type suitable for service in wide band amplifier stages, and especi ally grounded-grid operation. The useful frequency range extends from low to very high frequencies. The flexible terminal leads may be soldered, or welded directly to the terminals of circuit components without the use of sockets. Standard 8-Pin subminiature sockets may be used by cutting the leads to a suitable length.

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (pf) (without shield)

Plate to cathode and heater	0.25 Max.
Input (k to g + h)	8.5
Output (p to g + h)	2.5

RATINGS - ABSOLUTE MAXIMUM VALUES:

Heater Voltage (ac or dc)	6.3 ± 10% Volts
Plate Voltage	200 Volts
Plate Dissipation	2.0 Watts
Cathode Current	30 ma.
Heater—Cathode Voltage	100 Volts
Bulb Temperature	220 °C

CHARACTERISTICS AND TYPICAL OPERATION:

Heater Voltage	6.3	Volts
Heater Current	0.3	Amp.
Plate Voltage	100	Volts
Cathode Bias Resistance	82	Ohm s
Grid Voltage	0	Volts
Plate Current	15	m A
Plate Resistance	25	Kohms
Transconductance	18,000	umho s
Amplification Factor	43	
Ecl for 1b = 10 uA	-6	Volts

OBJECTIVE DATA

These data identify a particular developmental tube design and the type designation or the descriptive data may be subject to change or abandonment.