



TECHNICAL INFORMATION

SUBMINIATURE
PENTODE
TYPE
CK6051
Excellence in Electronics

The CK6051 is a filament type subminiature power amplifier pentode, suitable for intermittent service applications such as "push-to-talk" transmitters which do not require long life characteristics. It is designed for use in portable or wearable communications equipment for Class C service. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA**ENVELOPE:** T2X3 Glass**BASE:** None (0.016" tinned flexible leads. Length: 1.5" min.
Spacing: 0.048" center-to-center.)**TERMINAL CONNECTIONS:** (Red Dot is Adjacent to Lead 1)

Lead 1 Plate	Lead 4 Grid #1
Lead 2 Grid #2	Lead 5 Filament, Positive
Lead 3 Filament, Negative	Grid #3 ▲
Grid #3 ▲	

MOUNTING POSITION: Any**ELECTRICAL DATA****DIRECT INTERELECTRODE CAPACITANCES:** (μfds)

Grid to Plate: (g1 to p)
 Input: g to (f+g2+g3)
 Output: p to (f+g2+g3)

0.25 max.
 3.65
 3.0

RATINGS - DESIGN MAXIMUM VALUES:

Filament Voltage (dc)
 Plate Voltage
 Grid #2 Voltage
 Cathode Current
 Plate Dissipation
 Grid #2 Dissipation

1.25 $\pm$ 10% volts
 67.5 volts
 67.5 volts
 9.5 mA
 0.37 watt
 0.11 watt

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

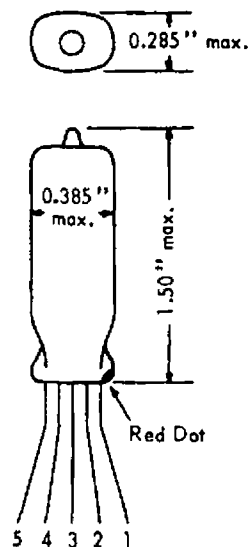
Filament Voltage a
 Filament Current
 Plate Voltage
 Grid #2 Voltage
 Grid #1 Voltage
 Plate Current
 Grid #2 Current
 Transconductance
 Plate Resistance (approx.)

1.25 volts
 100 mA
 45 volts
 45 volts
 -4.0 volts
 4.0 ma
 1.1 ma
 1350 μmhos
 35000 ohms

CHARACTERISTICS AND TYPICAL OPERATION - CLASS C OSCILLATOR:

Filament Voltage (dc)
 Filament Current
 DC Plate Voltage
 DC Grid #2 Voltage
 Plate Current
 Grid #2 Current
 Grid #1 Current (approx.)
 Useful Power Output
 Frequency

1.25 volts
 100 ma
 45 volts
 45 volts
 4.8 ma
 2.0 ma
 200 μa
 75 mw
 50 Mc



▲ Grid #3 is comprised of two separate deflector plates, one of which is connected to lead 3 and the other to lead 5.

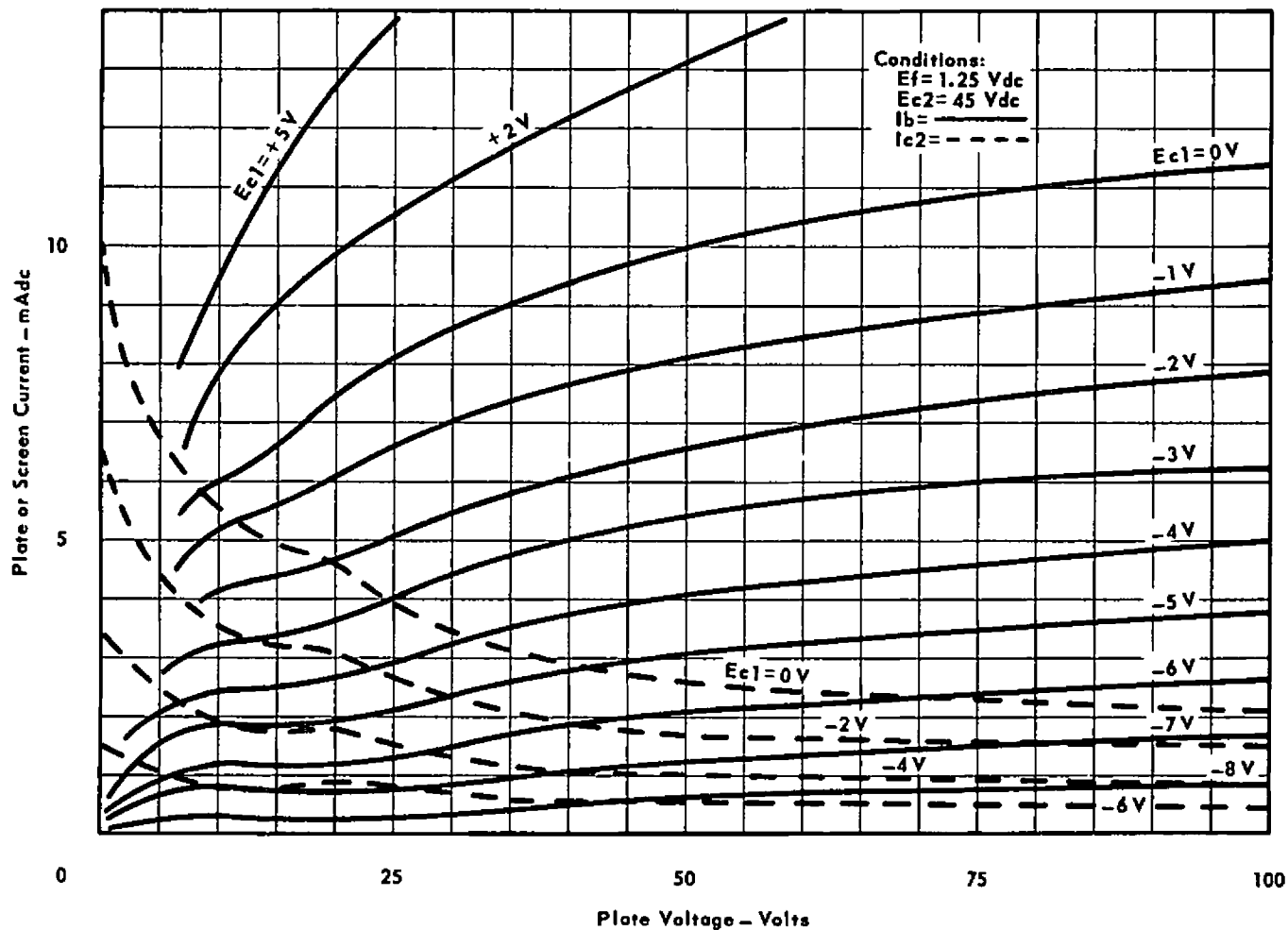
These data identify a particular developmental tube design, and the tube designation
 or the descriptive data may be subject to change or abandonment.

Objective Data

INDUSTRIAL COMPONENTS DIVISION

SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS



INDUSTRIAL COMPONENTS DIVISION

RAYTHEON COMPANY