



Excellence in Electronics

TYPE CK6419

The CK6419 is a filament type pentode of subminiature construction designed for use as a voltage amplifier in portable and wearable equipment. It is similar in characteristics to type CK549DX. 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: T-1 1/2 X 2 Glass
BASE: None (0.016" tinned flexible leads. Length: 1.5" min. Spacing: 0.040" center-to-center)
TERMINAL CONNECTIONS: (Red Dot is adjacent to Lead 1)
Lead 1 Plate, Lead 2 Grid #2, Lead 3 Filament, Negative Grid #3, Lead 4 Grid #1, Lead 5 Filament, Positive Grid #3
MOUNTING POSITION: Any

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM VALUES:

Table with 2 columns: Parameter (Filament Voltage, Plate Voltage, Grid #2 Voltage, Cathode Current) and Value (0.625 ± 20% volts, 25 volts, 25 volts, 0.1 ma.)

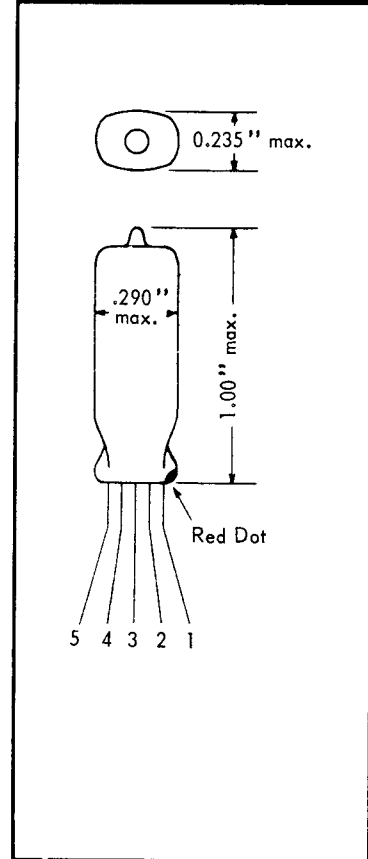
CHARACTERISTICS AND TYPICAL OPERATION:

Table with 2 columns: Parameter (Filament Voltage, Filament Current, Plate Voltage, Grid #2 Voltage, Grid #1 Voltage, Plate Current, Grid #2 Current, Transconductance, Plate Resistance) and Value (0.625 volts, 10 ma., 15 volts, 15 volts, -0.625 volts, 55 µa., 20 µa., 100 µmhos, 2 meg.)

CHARACTERISTICS AND TYPICAL OPERATION - RESISTANCE COUPLED CLASS A1 AMPLIFIER:

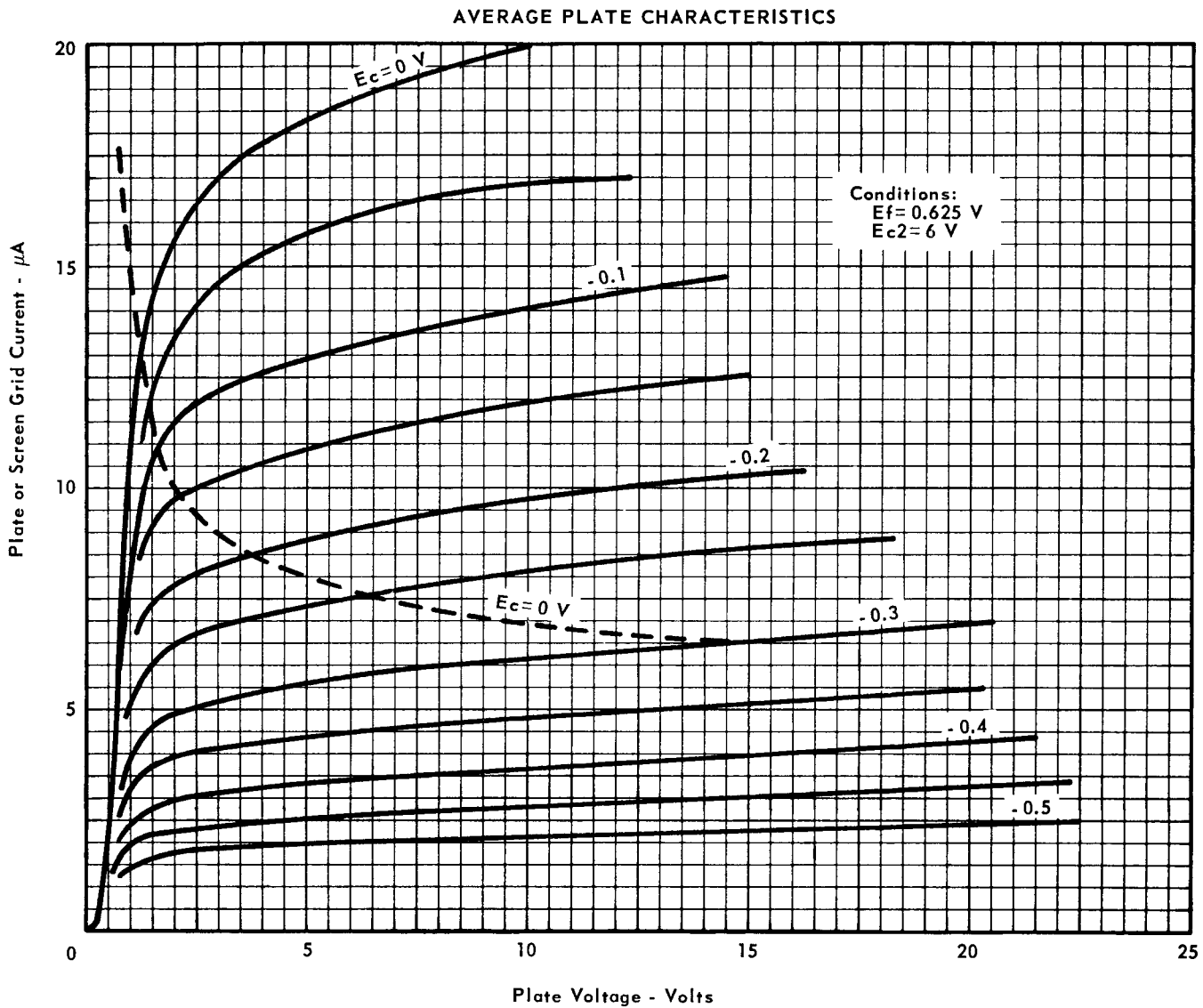
Table with 2 columns: Parameter (Filament Voltage, Filament Current, Plate and Grid #2 Supply Voltage, Grid #1 Voltage, Load Resistance, Grid #2 Resistor, Grid #1 Resistor, Plate Current, Grid #2 Current, Transconductance, Plate Resistance, Average Voltage Gain) and Value (0.625 volts, 10 ma., 15 volts, -0.625 volts, 2.2 meg., 3.3 meg., 10 meg., 4.6 µa., 2.0 µa., 17 µmhos, 12 meg., 27)

- ▲ Measured with a signal of 0.05 volts (RMS) and a coupled load impedance of 10 megohms.
◆ Grid #3 is composed of two deflector plates, one being connected to lead 3 and the other to lead 5.





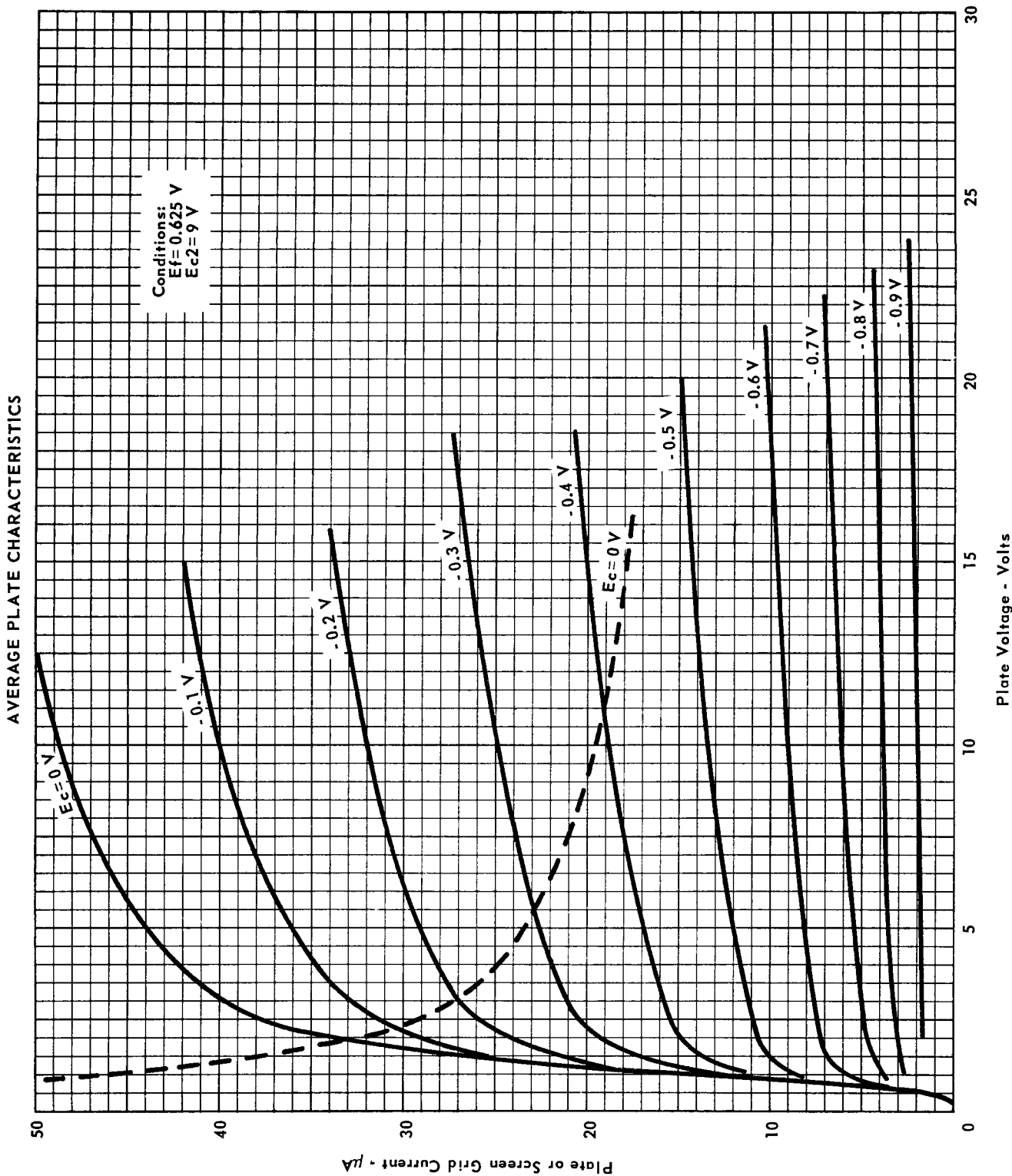
SUBMINIATURE PENTODE



RAYTHEON MANUFACTURING COMPANY
RECEIVING AND CATHODE RAY TUBE OPERATIONS



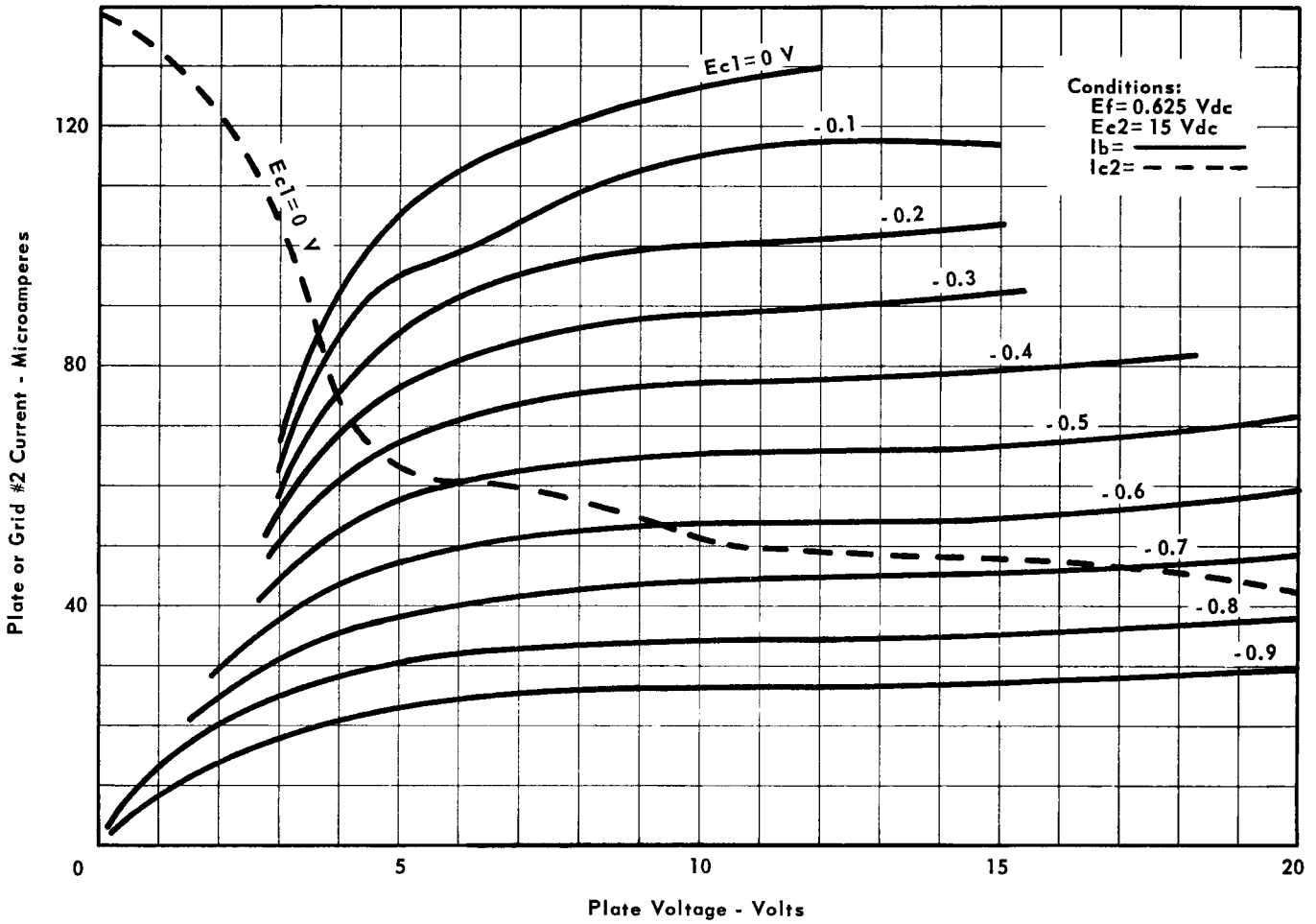
SUBMINIATURE PENTODE





SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS



RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS



SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS
(Triode Connected)

