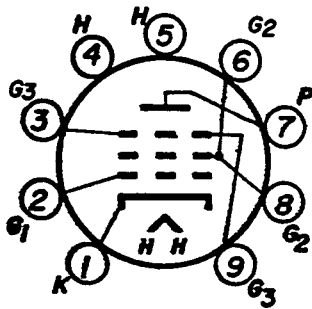


AMPEREX TUBE TYPE 6LD6

TENTATIVE DATA

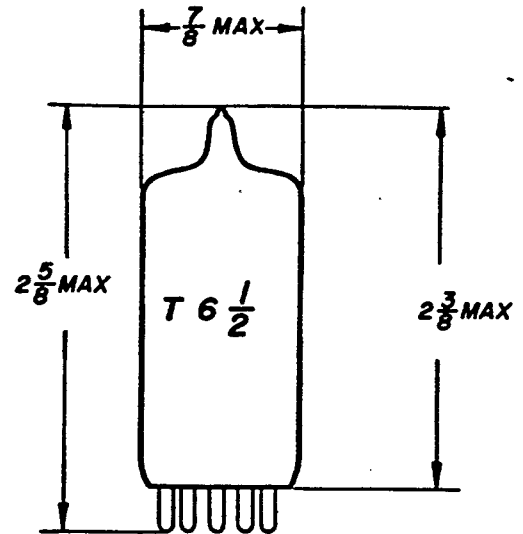
VIDEO OUTPUT PENTODE

Luminescence output tube in color T.V. receivers.



PIN CONNECTION

- 1 - CATHODE
- 2 - GRID NO. 1
- 3 - GRID NO. 3
- 4 - HEATER
- 5 - HEATER
- 6 - GRID NO. 2
- 7 - PLATE
- 8 - GRID NO. 2
- 9 - GRID NO. 3



General Characteristics

MECHANICAL

Dimensions
Base
Bulb

see outline drawing
Noval
T 6-1/2

ELECTRICAL

Heater
Heater Current
Heater Voltage

indirect AC or DC series supply
800 mA
6.3 volts

Direct Interelectrode Capacitances

Plate to all except Grid No. 1
Grid No. 1 to all except Plate
Plate to Grid No. 1

4 pf
20 pf
0.075 pf

6LD6

TYPICAL CHARACTERISTICS

Plate Voltage	170 volts
Grid No. 2 Voltage	170 volts
Grid No. 3 Voltage	0 volts
Grid No. 1 Supply Voltage	0 volts
Cathode Resistor (decoupled)	25 ohms
Plate Current	30 mA
Grid No. 2 Current	6.5 mA
Transconductance	40,000 μ mhos
Amplification Factor (Grid 1 to Grid 2)	70 --

LIMITING VALUES (design center rating system unless otherwise stated)

Plate Voltage	550 volts max.
Grid No. 2 Voltage	300 volts max.
Plate Dissipation	550 volts max.
Grid No. 2 Dissipation	300 volts max.
Cathode Current	6 watts max.
Grid No. 1 Resistor	2.5 watts max.
at $R_k \geq 39 \Omega$	3.0 watts max. ¹
Cathode to Heater Voltage	100 mA max.
	0.1 m ohms max.
	0.5 m ohms max.
	200 volts max.

OPERATING CONDITIONS (Negative Modulation)

E_b	= 250 V
R_b	= 330 ohms
R_{av}	= 560 ohms
R_p	= 2.7 k ohms
R_{g2}	= 5.6 k ohms
$R_{k(2)}$	= 39 ohms
$+E_{bg1}$	= 4.5 V

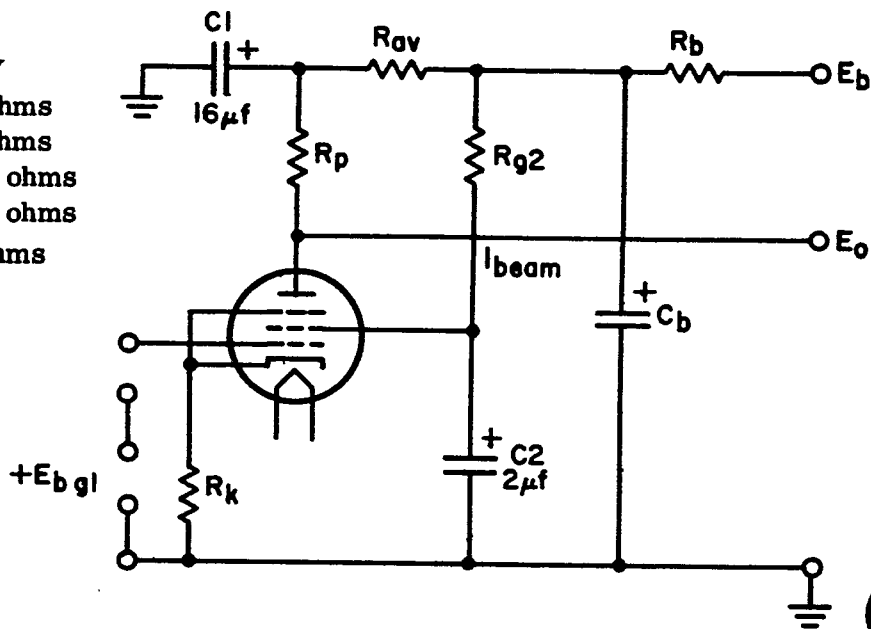


Figure 1

1 Design maximum rating system including no signal conditions.

2 Without by-pass capacitor.

E_{o1} = 100 V
 E_{opp} \geq 140 V
 Video-linearity \geq 0.8
 E_{ipp} ca. 5 V
 I_{beam} max. 7 mA

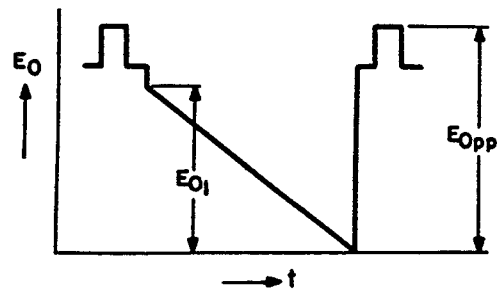


Figure 2

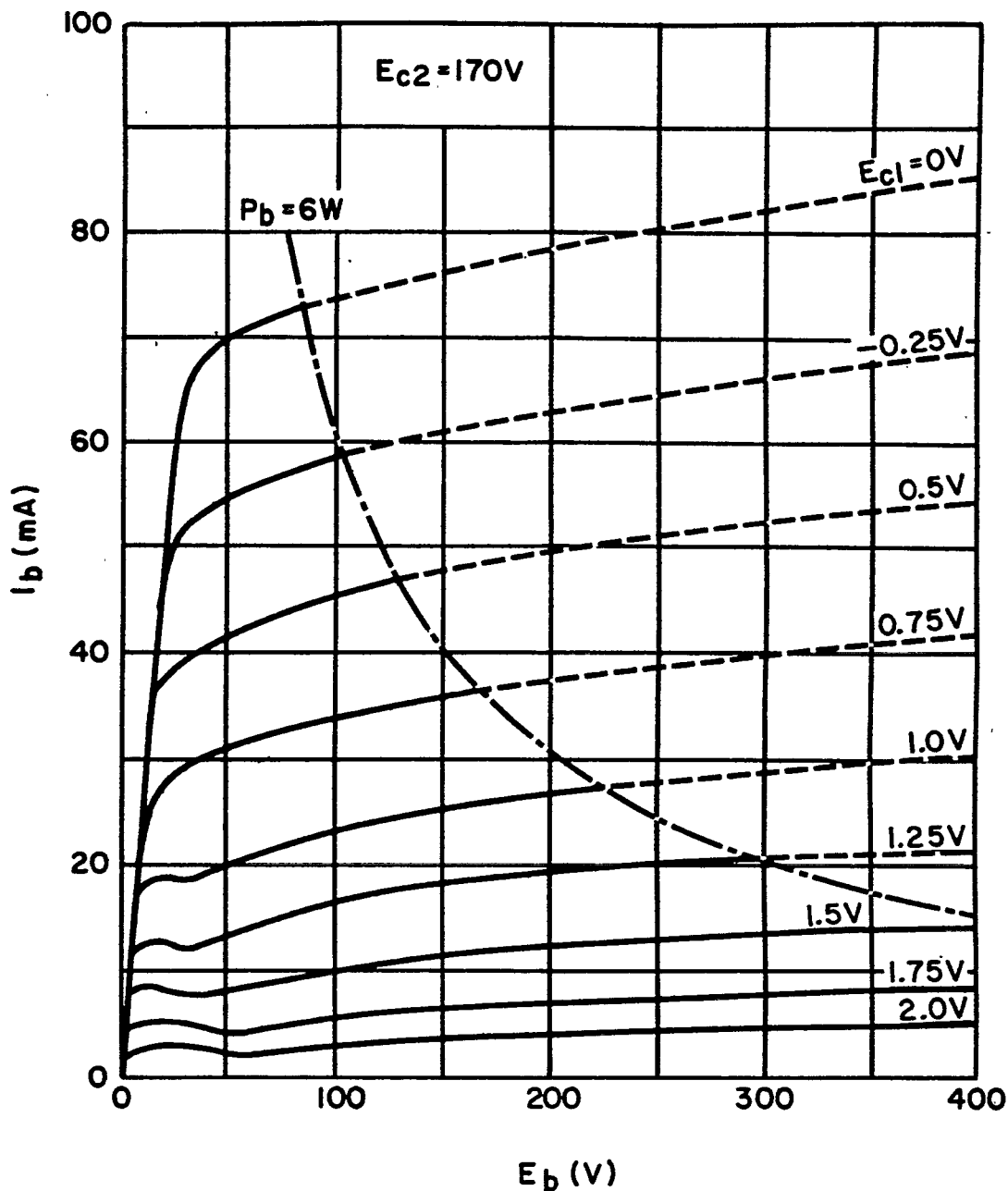


Plate Characteristics

