ELECTRONIC TUBE REFERENCE

36KD6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

> Heavy-duty Compactron beam-power tube for television horizontal-deflection output, rated around 33 W plate dissipation and approximately 7 kV positive flyback pulses.

General characteristics

BASE DESIGNATION	12GW	**BASE PINS**	12
NOMINAL HEATER	36 V / 450 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

12GW - Terminal pinout

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	—	H — Heater	CONNECTED
PIN2	—	K — Cathode	CONNECTED
PIN3	—	G2 — Screen Grid	CONNECTED
PIN4	—	G3 — Suppressor Grid	CONNECTED
PIN5	—	G1 — Control Grid	CONNECTED
PIN7	—	—	IC
PIN9	—	G1 — Control Grid	CONNECTED
PIN10	—	G3 — Suppressor Grid	CONNECTED
PIN11	—	G2 — Screen Grid	CONNECTED
PIN12	—	H — Heater	CONNECTED
CAP1	—	P — Plate (Anode)	CONNECTED

Section ratings

SECTION1 Beam Power	
PLATE RESISTANCE	6000 Ω
TRANSCONDUCTANCE	0.014 S
MAXIMUM PLATE VOLTAGE	990 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	33 W
MAXIMUM SCREEN DISSIPATION	5 W
No non-heater ratings printed; source refers to 6KD6.	

Duodecar beam-power tube used as a horizontal-deflection amplifier in television receivers.

SOURCE OPERATING CONDITIONS

1975 RCA RC30

SOURCE PDF

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1975 RCA RC30

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No. 3-Circuit Resistance	**0.68 MΩ**	Published in approved 36KD6 target datasheet entry; Section1
For fixed-bias operation	**0.5 MΩ**	Published in approved 36KD6 target datasheet entry; Section1
For cathode-bias operation	**1 MΩ**	Published in approved 36KD6 target datasheet entry; Section1
# Pulse duration must not exceed 15% of a horizontal scanning cycle (	**10 microseconds**	Published in approved 36KD6 target datasheet entry; Section1
Heater Voltage 6.3 30	**36 V**	Published in approved 36KD6 target datasheet entry; Section1
Heater Current 2.85 0.6	**450 mA**	Published in approved 36KD6 target datasheet entry; Section1
Heater Warm-up Time 11	**11 seconds**	Published in approved 36KD6 target datasheet entry; Section1
Grid No.l to Plate	**0.8 pF**	Published in approved 36KD6 target datasheet entry; Section1
Grid No.l to Cathode, Heater, Grid No.2, and Grid No.3	**40 pF**	Published in approved 36KD6 target datasheet entry; Section1
DC Plate Supply Voltage	**990 V**	Published in approved 36KD6 target datasheet entry; Section1
Peak Positive-Pulse Plate Voltage*	**7000 V**	Published in approved 36KD6 target datasheet entry; Section1
Positive DC Grid-No.3 Voltage	**20 V**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No.2 Voltage	**200 V**	Published in approved 36KD6 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Negative-Pulse Grid-No.l Voltage	**250 V**	Published in approved 36KD6 target datasheet entry; Section1
Peak Cathode Current	**1400 mA**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No.2 Input	**5 W**	Published in approved 36KD6 target datasheet entry; Section1
Transconductance —	**14000 µS**	Published in approved 36KD6 target datasheet entry; Section1
Plate Current — 750	**120 mA**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No. 2 Current — 42"	**1.8 mA**	Published in approved 36KD6 target datasheet entry; Section1
of 1.0 juA — —	**-40 V**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No.l-Circuit Resistance	**2.2 MΩ**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No. 3-Circu it Resistance	**0.01 MΩ**	Published in approved 36KD6 target datasheet entry; Section1
# Pulse duration must not exceed 15% of a horizontal scanning cycle (	**10 microseconds**	Published in approved 36KD6 target datasheet entry; Section1
Heater Voltage (ac/dc) 4.5 5.6	**6.3 V**	Published in approved 36KD6 target datasheet entry; Section1
Heater Current 0.6 0.45	**400 mA**	Published in approved 36KD6 target datasheet entry; Section1
Heater Warm-up Time (Average) 11	**11 seconds**	Published in approved 36KD6 target datasheet entry; Section1
Plate Voitagc 280	**280 V**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No.2 (Screen-Grid) Supply Voltage	**280 V**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No.l (Control-Grid) Voltage, Positive-bias value	**0 V**	Published in approved 36KD6 target datasheet entry; Section1
Cathode Current	**20 mA**	Published in approved 36KD6 target datasheet entry; Section1
Plate Dissipation	**2 W**	Published in approved 36KD6 target datasheet entry; Section1
For grid-No. 2 voltages up to	**140 V**	Published in approved 36KD6 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For grid-No.2 voltages between 140 and	**280 V**	Published in approved 36KD6 target datasheet entry; Section1
Plate Supply Voltage 125	**125 V**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No.2 Supply Voltage	**125 V**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No.l Supply Voltage 0	**0 V**	Published in approved 36KD6 target datasheet entry; Section1
Cathode-Bias Resistor 68	**33 Ω**	Published in approved 36KD6 target datasheet entry; Section1

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Cathode, Heater, Grid No.2, and Grid No. 3	**16 pF**	Published in approved 36KD6 target datasheet entry; Section1
Grid to Plate	**1.3 pF**	Published in approved 36KD6 target datasheet entry; Section1
and Internal Shield	**2.4 pF**	Published in approved 36KD6 target datasheet entry; Section1
and Internal Shield	**2 pF**	Published in approved 36KD6 target datasheet entry; Section1
and Internal Shield	**5 pF**	Published in approved 36KD6 target datasheet entry; Section1
and Internal Shield	**3.4 pF**	Published in approved 36KD6 target datasheet entry; Section1

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage 150 60	**150 V**	Published in approved 36KD6 target datasheet entry; Section1
Grid-No.2 (Screen-Grid) Voltage 150 110	**110 V**	Published in approved 36KD6 target datasheet entry; Section1
Plate Resistance (Approx.) —	**6000 Ω**	Published in approved 36KD6 target datasheet entry; Section1

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker