



ELECTRONIC TUBE REFERENCE

10GK6

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Miniature output pentode used in audio amplifier output stages and television video-output stages. Its power-capable construction supports both audio load drive and comparatively high-current wideband video service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	10 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	38000 Ω
TRANSCONDUCTANCE	0.0113 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	13.2 W
MAXIMUM CATHODE CURRENT	65 mA
Source is a product-information/reference sheet and does not print the referenced base tube's section ratings/characteristics; promoted fields intentionally not inferred from an external datasheet.	

Miniature type used in the output stage of audio am- is(3 plifying equipment and also in the video output stage of color and black-and-white television receivers. Out- *i lines section, 6G; requires miniature 9-contact socket. K Types 10GK6 and 16GK6 are identical with type 6GK6 except for heater ratings. 9GK 6GK6 10GK6 16GK6

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc)	16 volts	Published value from supplied target entry
Heater Current	0.3 ampere	Published value from supplied target entry
Plate Supply Voltage	605 volts	Published value from supplied target entry
Plate Voltage	330 volts	Published value from supplied target entry
Grid-No	605 volts	Published value from supplied target entry
Grid-No	330 volts	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage, Negative-bias value	100 volts	Published value from supplied target entry
Cathode Current	65 mA	Published value from supplied target entry
Plate Dissipation	13.2 watts	Published value from supplied target entry
Grid-No	4 watts	Published value from supplied target entry
Grid-No	2 watts	Published value from supplied target entry
Plate Supply Voltage	250 volts	Published value from supplied target entry
Grid-No	250 volts	Published value from supplied target entry
Plate Resistance (Approx.)	38000 ohms	Published value from supplied target entry
Transconductance	11300	Published value from supplied target entry
Peak AF Grid-No.1 Voltage	7.3 volts	Published value from supplied target entry
Zero-Signal Plate Current	48 mA	Published value from supplied target entry
Zero-Signal Grid-No	5.5 mA	Published value from supplied target entry
Effective Load Resistance	5200 ohms	Published value from supplied target entry
Plate Voltage	300 volts	Published value from supplied target entry
Grid-No	300 volts	Published value from supplied target entry
Grid-No.1 Voltage	-14.7 volts	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak AF Grid-No.1-to-Grid-No.1 Voltage	28 volts	Published value from supplied target entry
Zero-Signal Plate Current	15 mA	Published value from supplied target entry
Zero-Signal Grid-No	1.6 mA	Published value from supplied target entry
Heater Voltage (ac/dc)	6.3 volts	Published value from supplied target entry
Heater Current	0.4 ampere	Published value from supplied target entry
Heater Warm-up Time (Average)	11 seconds	Published value from supplied target entry
Grid-No	0 volts	Published value from supplied target entry
Grid-No	300	Published value from supplied target entry

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Heater-Cathode Voltage ±	100 volts	Published value from supplied target entry
Maximum-Signal Plate Current	50.6 mA	Published value from supplied target entry
Maximum-Signal Grid-No	10 mA	Published value from supplied target entry
Maximum-Signal Power Output	5.7 watts	Published value from supplied target entry
Maximum-Signal Plate Current	92 mA	Published value from supplied target entry
Maximum-Signal Grid-No	22 mA	Published value from supplied target entry
Maximum-Signal Power Output	17 watts	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Cathode, Heater, Grid No	3	Published value from supplied target entry
Effective Load Resistance (plate to plate)	8000 ohms	Published value from supplied target entry
Direct Interelectrode Capacitances : Unshielded Shielded	0	Published value from supplied target entry
Plate to Cathode. Heater, Grid No	3	Published value from supplied target entry

TUBE TINKER

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

