



ELECTRONIC TUBE REFERENCE

12CR5

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

12CR5 miniature beam-power television horizontal-deflection output tube with 12.6 V, 0.6 A controlled-warm-up heater and plate top cap.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	12.6 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	18000 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	11 W
<i>Horizontal sweep beam power section. 5500 V maximum positive plate pulse (6000 V absolute); negative pulse OCR ambiguous. Typical Class A1 at $V_a=250$ V, $V_{g2}=150$ V, $V_{g1}=-22.5$ V: $r_p=18k\Omega$, $g_m=6000$ μS, screen current 2.1 mA. Peak heater-to-cathode +/-200 V. Grid1-plate 0.32 pF; input 12.9 pF; output 6.9 pF.</i>	

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

9999 Mixed 2000

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

9999 MIXED 2000

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	12CR5 Westinghouse Class A1 typical; $V_a=250$ V, $V_{g2}=150$ V, $V_{g1}=-22.5$ V
Screen voltage	150 V	12CR5 Westinghouse Class A1 typical; $V_a=250$ V, $V_{g2}=150$ V, $V_{g1}=-22.5$ V
Control-grid voltage	-22.5 V	12CR5 Westinghouse Class A1 typical; $V_a=250$ V, $V_{g2}=150$ V, $V_{g1}=-22.5$ V
Screen current	2.1 mA	12CR5 Westinghouse Class A1 typical; $V_a=250$ V, $V_{g2}=150$ V, $V_{g1}=-22.5$ V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	18000 Ω	12CR5 Westinghouse Class A1 typical; $V_a=250$ V, $V_{g2}=150$ V, $V_{g1}=-22.5$ V
Transconductance	6000 μS	12CR5 Westinghouse Class A1 typical; $V_a=250$ V, $V_{g2}=150$ V, $V_{g1}=-22.5$ V

TUBE TINKER

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