



ELECTRONIC TUBE REFERENCE

12CX6

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

RCA 12CX6 sharp-cutoff 7-pin miniature pentode for low-voltage automobile radios operating directly from 12 V storage batteries.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	12.6 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.0031 S
MAXIMUM PLATE VOLTAGE	33 V
MAXIMUM SCREEN VOLTAGE	33 V
<i>RCA 1959 low-voltage Class A sharp-cutoff pentode. Typical V_a approx 12.6 V (OCR unclear), V_{g2} 12.6 V, V_{g3} 0 V, grid supply 0 V with 2.2 MΩ bypassed resistor; I_a 3 mA, I_{g2} 1.4 mA. Peak heater-cathode ± 30 V. $G1$-plate ≤ 0.05 pF; input 7.6 pF; output 6.2 pF. Maximum grid circuit resistance 10 MΩ.</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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen voltage	12.6 V	Typical Class A screen voltage
Plate current	3 mA	Typical Class A plate current
Screen current	1.4 mA	Typical Class A screen current

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	40000 Ω	Approximate plate resistance
Transconductance	3100 μS	Typical transconductance

TUBE TINKER

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and their source documents.

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