



ELECTRONIC TUBE REFERENCE

6C24

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Power triode intended for radio-frequency amplifier and oscillator service. Manufacturer documentation emphasizes RF power operation and transmitting applications rather than ordinary receiving-tube voltage amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 14 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM PLATE DISSIPATION	600 W
MAXIMUM CATHODE CURRENT	500 mA
<i>Published maximum ratings and electrical characteristics promoted from approved source.</i>	

The RCA 6C24 is a forced-air-cooled power triode for AF modulation and RF amplification/oscillation up to 160 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	14 A	Nominal
Maximum Plate Voltage	3000 V	—
Maximum Plate Dissipation	600 W	—
Maximum Cathode Current	500 mA	—
Maximum Frequency	160 MHz	Full ratings

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	30	Typical
Maximum Signal Power Output	1640 W	ClassAB2; two tubes

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 RCA Transmitting Tubes

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

1956 RCA TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Full-Input Frequency	160 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Current	500 mA	—
Maximum Plate Input	1500 W	—

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