



ELECTRONIC TUBE REFERENCE

CK512AX

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Extremely low-drain directly heated subminiature pentode for audio-frequency and direct-coupled amplification from very low battery supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5J	BASE PINS	5
NOMINAL HEATER	0.625 V / 20 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	1250000 Ω
TRANSCONDUCTANCE	0.00016 S
MAXIMUM PLATE VOLTAGE	25 V
MAXIMUM SCREEN VOLTAGE	25 V
MAXIMUM CATHODE CURRENT	0.1 mA
<i>Published values are typical summary-table operating/characteristic data, not maximum ratings.</i>	

Directly heated subminiature pentode for resistance-coupled audio-frequency and direct-coupled amplifiers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	0.625 V	Nominal
HeaterCurrentNominal	15 mA	Nominal
Maximum Plate Voltage	25 V	—
Maximum Screen Voltage	25 V	—
Maximum Cathode Current	0.1 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	36 μ S	Typical
Plate Resistance	5000000 ohm	Typical



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	22.5 V	Typical operating point; Voltage Amp.
Grid 1 Voltage	-0.625 V	Typical operating point; Voltage Amp.
Grid 2 Voltage	22.5 V	Typical operating point; Voltage Amp.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	0.125 mA	Typical operating point; Voltage Amp.
Grid 2 Current	0.04 mA	Typical operating point; Voltage Amp.
Output Power	37 mW	Typical operating point; Voltage Amp.
Maximum Length	1.25 in	Maximum dimension
Maximum Width	0.385 in	Maximum dimension
Maximum Thickness	0.285 in	Maximum dimension