



ELECTRONIC TUBE REFERENCE

CK502AX

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Directly heated Raytheon subminiature pentode for low-power amplifier service in portable and wearable equipment. Its tiny filament demand and compact construction target battery-operated personal electronics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.25 V / 30 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	250000 Ω
TRANSCONDUCTANCE	0.0005 S
MAXIMUM PLATE VOLTAGE	45 V
MAXIMUM CATHODE CURRENT	1 mA
Supplied handbook table and any explicit cross-reference/service row reviewed.	

Directly heated subminiature pentode for low-power amplifier service in portable and wearable equipment.



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	1.25 V	Nominal
HeaterCurrentNominal	30 mA	Nominal
Maximum Plate Voltage	45 V	—
Maximum Cathode Current	1 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	500 μ S	Typical
Plate Resistance	250000 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
Published application/classification	subminiature pentode power amplifier	Supplied handbook table

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker