



ELECTRONIC TUBE REFERENCE

CK542DX

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Subminiature battery power pentode for wearable equipment, producing roughly 3.75 mW from approximately 22.5 V.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5J	BASE PINS	5
NOMINAL HEATER	1.25 V / 15 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.000325 S
MAXIMUM PLATE VOLTAGE	30 V
MAXIMUM CATHODE CURRENT	0.7 mA
<i>Published subminiature operating-table characteristics; plate/screen voltages below are typical operating values, not promoted as maxima.</i>	

Directly heated subminiature power-amplifier pentode for 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	15 mA	Nominal
Maximum Plate Voltage	30 V	—
Maximum Cathode Current	0.7 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	325 μ S	Typical
Plate Resistance	150000 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	—
Grid 1 voltage	-2 V	—
Grid 2 voltage	22.5 V	—
Plate current	0.425 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 2 current	0.13 mA	—
Power output	3.75 mW	—
Load resistance	0.05 MOhm	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	0.15 MOhm	—
Transconductance	325 uS	—

TUBE TINKER

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