



## ELECTRONIC TUBE REFERENCE

## CK542DXS1

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Special S1 version of CK542DX retaining its ultra-low-voltage battery power-amplifier characteristics.

## 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 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                                                 | 0.000325 S      |
| <i>Published subminiature operating-table characteristics; plate/screen voltages below are typical operating values, not promoted as maxima.</i> |                 |

Directly heated subminiature pentode for power amplifier service. Special S1 version of CK542DX; the table publishes the same electrical operating values.

## 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        | —                |
| 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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and their source documents.

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